

10511049

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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 OCT 23 The Derwent World Patents Index suite of databases on STN
has been enhanced and reloaded
NEWS 4 OCT 30 CHEMLIST enhanced with new search and display field
NEWS 5 NOV 03 JAPIO enhanced with IPC 8 features and functionality
NEWS 6 NOV 10 CA/CAPLUS F-Term thesaurus enhanced
NEWS 7 NOV 10 STN Express with Discover! free maintenance release Version
8.01c now available
NEWS 8 NOV 20 CA/CAPLUS to MARPAT accession number crossover limit increased
to 50,000
NEWS 9 DEC 01 CAS REGISTRY updated with new ambiguity codes
NEWS 10 DEC 11 CAS REGISTRY chemical nomenclature enhanced
NEWS 11 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and
functionality
NEWS 13 DEC 18 CA/CAPLUS pre-1967 chemical substance index entries enhanced
with preparation role
NEWS 14 DEC 18 CA/CAPLUS patent kind codes updated
NEWS 15 DEC 18 MARPAT to CA/CAPLUS accession number crossover limit increased
to 50,000
NEWS 16 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 17 DEC 27 CA/CAPLUS enhanced with more pre-1907 records
NEWS 18 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19 JAN 16 CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 20 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 21 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22 JAN 22 CA/CAPLUS updated with revised CAS roles
NEWS 23 JAN 22 CA/CAPLUS enhanced with patent applications from India
NEWS 24 JAN 29 PHAR reloaded with new search and display fields
NEWS 25 JAN 29 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
NEWS 26 FEB 13 CASREACT coverage to be extended
NEWS 27 Feb 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 28 Feb 15 RUSSIAPAT enhanced with pre-1994 records

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:19:26 ON 19 FEB 2007

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:19:37 ON 19 FEB 2007

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STRUCTURE FILE UPDATES: 18 FEB 2007 HIGHEST RN 921759-52-6

DICTIONARY FILE UPDATES: 18 FEB 2007 HIGHEST RN 921759-52-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

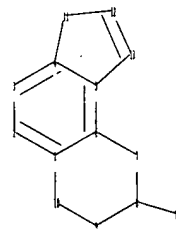
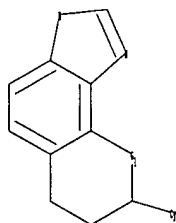
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10551049.str

10511049



chain nodes :

15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

8-15

ring bonds :

1-2 1-6 1-10 2-3 3-4 4-5 4-11 5-6 5-13 6-7 7-8 8-9 9-10 11-12 12-13

exact/norm. bonds :

1-10 4-11 5-13 6-7 7-8 8-9 8-15 9-10 11-12 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,NH

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 15:Atom

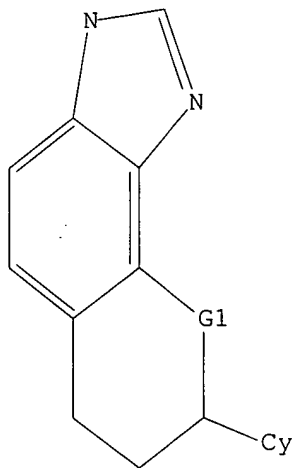
10511049

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,NH

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:20:02 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2423 TO ITERATE

82.5% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

8 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 45508 TO 51412

PROJECTED ANSWERS: 8 TO 379

L2 8 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 14:20:06 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 49338 TO ITERATE

100.0% PROCESSED 49338 ITERATIONS
SEARCH TIME: 00.00.01

433 ANSWERS

L3 433 SEA SSS FUL L1

=> fil hcaplus

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'HCAPLUS' ENTERED AT 14:20:13 ON 19 FEB 2007

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FILE COVERS 1907 - 19 Feb 2007 VOL 146 ISS 9
FILE LAST UPDATED: 18 Feb 2007 (20070218/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 9 L3

=> d ed ibib abs hitstr 1-9

10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN

ED Entered STN: 29 Dec 2006

ACCESSION NUMBER: 2006:1356587 HCAPLUS

DOCUMENT NUMBER: 146:100691

TITLE: Process for the preparation of tricyclic benzimidazoles via ruthenium-catalyzed

stereoselective

hydrogenation reaction
 INVENTOR(S): Chiesa, Maria Vittoria; Palmer, Andreas; Buhr, Wilm;
 Zimmermann, Peter Jan; Brehm, Christof; Simon,
 Wolfgang-Alexander; Postius, Stefan; Kromer,

Wolfgang;

Zanotti-Gerosa, Antonio

Altana Pharma AG, Germany

PCT Int. Appl., 126pp.

CODEN: PIXX02

DOCUMENT TYPE: Patent

LANGUAGE: English

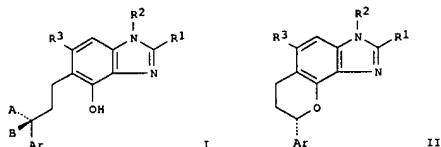
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

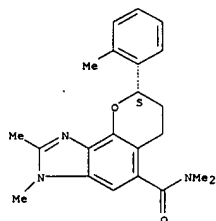
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: EP 2005-105566 A 20050622
 EP 2006-101699 A 20060215

GI



L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



IT 774582-29-5P 911048-67-4P 911048-68-5P
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L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

AB A process of preparing benzimidazoles I (A = OH, B = H) comprising a stereoselective catalytic hydrogenation of I (AB = O) in the presence of a hydrogenation catalyst which is selected from the group consisting of RuX₂(S)-Xyl-P-Phos) ((S)-DAIPEN) and RuX₂((S)-Xyl-BINAP) ((S)-DAIPEN), wherein X and Y are the same or different substituents selected from the group consisting of hydrogen, halogen, BH₄ and carboxylate, and in which R1 is H, halogen, OH, alkyl, cycloalkyl, alkoxy, alkoxy-alkyl, alkoxy-carbonyl, alkenyl, alkynyl, halo-alkyl, hydroxyalkyl, alkylamino;

R2 is is hydrogen, alkyl, alkoxy, alkoxy-alkyl, aryl, cycloalkyl, alkoxy-carbonyl, mono- or di-alkylamino-alkylcarbonyl, hydroxyalkyl, fluoro-alkyl, alkoxy-alkoxy-alkyl, substituted silyl, alkylcarbonyl, aryl-oxycarbonyl; Ar is substituted mono- or bicyclic aromatic, which is selected from the group consisting of Ph, naphthyl, pyrrolyl, pyrazolyl, imidazolyl, 1,2,3-triazolyl, indolyl, benzimidazolyl, furyl, benzofuryl, thienyl, benzothienyl, thiazolyl, isoxazolyl, pyridinyl, pyrimidinyl, chinolinyl, and isochinolinyl. Cyclization of I (A = OH, B = H) gave tricyclic benzimidazoles II, which can be used for the treatment of gastrointestinal disorders (no biol. data). Thus,

(8S)-2-methyl-8-phenyl-3-(2-trimethylsilyl-ethoxymethyl)-3,6,7,8-tetrahydro-chromeno[7,8-d]imidazole-5-carboxylic acid dimethylamide was prepared and used for the treatment and/or prophylaxis of gastrointestinal disorders. Title tricyclic benzimidazoles exhibit marked inhibition of gastric acid secretion and an excellent gastric and intestinal protective or curative action in warm-blooded animals, in particular humans (no data).

IT 917957-11-0P
 RL: IMF (Industrial manufacture); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(process for the preparation of tricyclic benzimidazoles via ruthenium-catalyzed stereoselective hydrogenation reaction for the treatment of gastrointestinal disorders)

RN 917957-11-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

917961-10-5P 917961-11-6P 917961-12-7P
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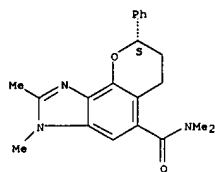
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (process for the prep. of tricyclic benzimidazoles via ruthenium-catalyzed stereoselective hydrogenation reaction for the treatment of gastrointestinal disorders)

RN 774582-29-5 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

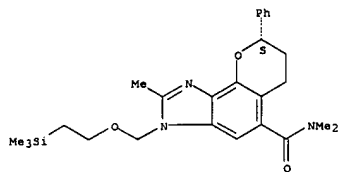
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L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



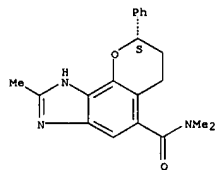
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CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl-3-[(2-(trimethylsilyl)ethoxy)methyl]-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

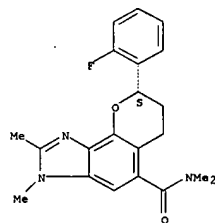


RN 911048-68-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

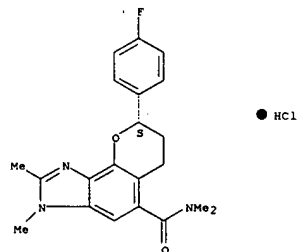


L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917957-10-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(4-fluorophenyl)-3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-, hydrochloride (1:1), (8S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917957-12-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methylphenyl)-, (8S)-(2Z)-2-butenedioate (1:7) (CA INDEX NAME)

CM 1

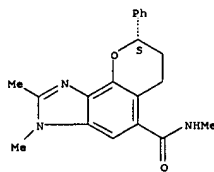
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Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

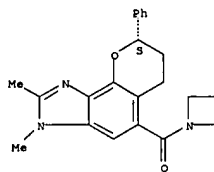
RN 911048-75-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 911048-79-8 HCAPLUS
CN Azetidine, 1-[[[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl]carbonyl]- (9CI) (CA INDEX NAME)

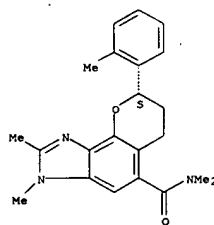
Absolute stereochemistry.



RN 917957-09-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-fluorophenyl)-3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

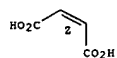
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



RN 917957-13-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methylphenyl)-, (8S)-(2E)-2-butenedioate (1:7) (CA INDEX NAME)

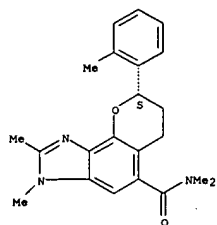
CM 1

CRN 917957-11-0
CMF C22 H25 N3 O2

Absolute stereochemistry. Rotation (-).

10511049

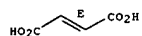
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



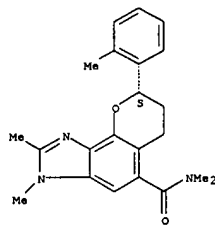
RN 917957-14-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methylphenyl)-, ethanedioate (1:1), (8S)- (CA INDEX NAME)

CM 1

CRN 917957-11-0
CMF C22 H25 N3 O2

Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

CRN 144-62-7
CMF C2 H2 O4



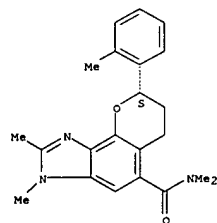
RN 917957-15-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 917957-11-0
CMF C22 H25 N3 O2

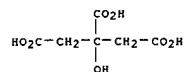
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

CRN 77-92-9
CMF C6 H8 O7



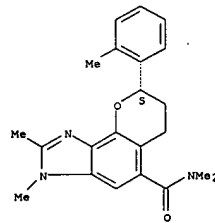
RN 917957-16-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methylphenyl)-, (8S)-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 917957-11-0
CMF C22 H25 N3 O2

Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



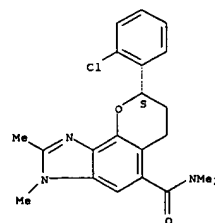
CM 2

CRN 75-75-2
CMF C H4 O3 S



RN 917957-17-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-chlorophenyl)-3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

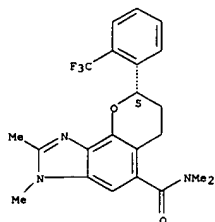


RN 917957-18-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-(trifluoromethyl)phenyl)-, (8S)- (CA INDEX NAME)

10511049

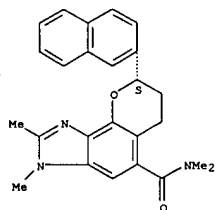
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

Absolute stereochemistry.



RN 917957-19-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-naphthalenyl)-, hydrochloride (1:1), (8S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

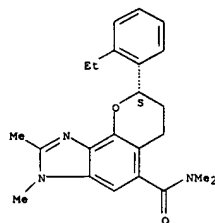


● HCl

RN 917957-20-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-ethylphenyl)-3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

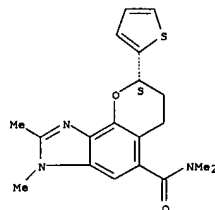
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 917957-21-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

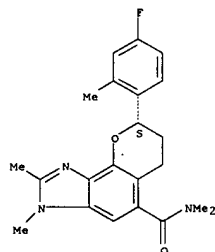
Absolute stereochemistry.



RN 917957-22-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(4-fluoro-2-methylphenyl)-3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

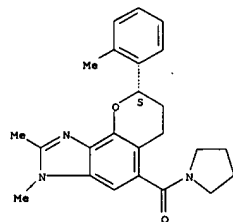
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 917957-23-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

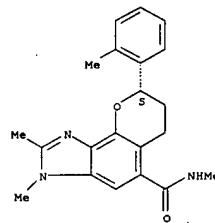
Absolute stereochemistry. Rotation (-).



RN 917957-24-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-trimethyl-8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

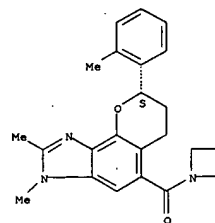
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 917957-25-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

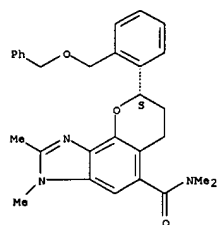


RN 917957-26-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-[2-[(phenylmethoxymethyl)phenyl]-], (8S)- (CA INDEX NAME)

Absolute stereochemistry.

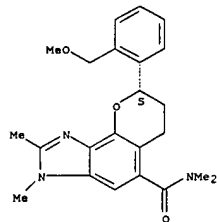
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917957-27-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[(2-methoxymethyl)phenyl]-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

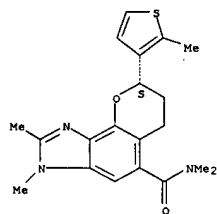
Absolute stereochemistry. Rotation (-).



RN 917957-28-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2-trimethyl-8-(2-methylphenyl)-3-[[2-(trimethylsilyl)ethoxy]methyl]-, (8S)- (CA INDEX NAME)

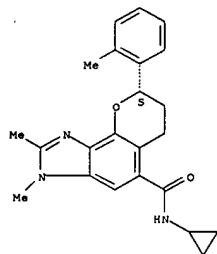
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



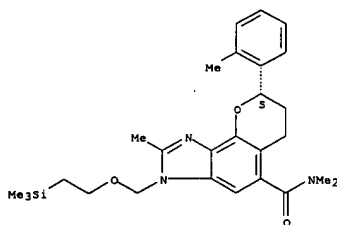
RN 917957-31-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-3,6,7,8-tetrahydro-2,3-dimethyl-8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



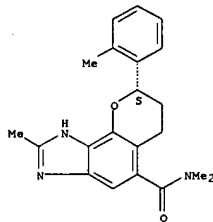
RN 917957-32-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917957-29-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

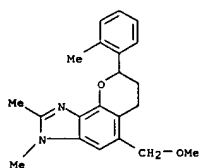
Absolute stereochemistry. Rotation (-).



RN 917957-30-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

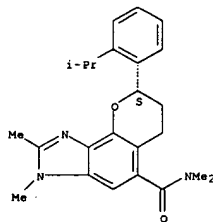
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-15-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-[2-(1-methylethyl)phenyl]-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

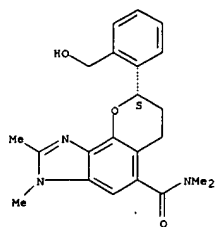


RN 917960-16-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-(2-(hydroxymethyl)phenyl)-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

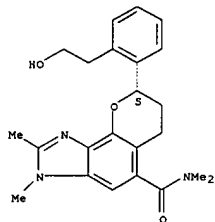
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-17-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[2-(2-hydroxyethyl)phenyl]-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

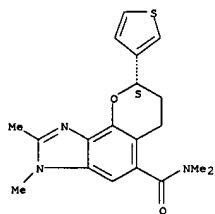
Absolute stereochemistry.



RN 917960-18-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[2-(1-hydroxyethyl)phenyl]-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

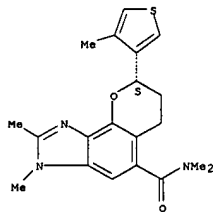
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-21-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

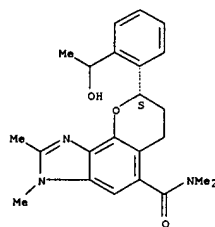
Absolute stereochemistry.



RN 917960-22-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-benzo[b]thien-3-yl-3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-, (8S)- (CA INDEX NAME)

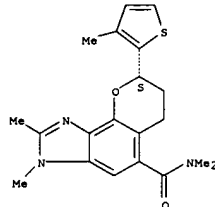
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-19-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

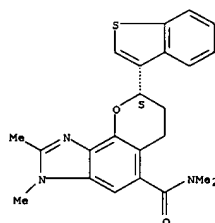
Absolute stereochemistry.



RN 917960-20-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

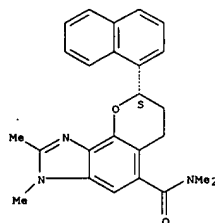
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-23-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

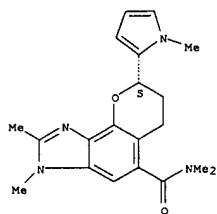


RN 917960-24-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

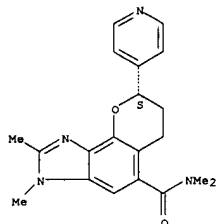
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-25-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

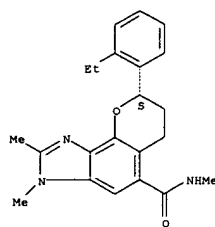
Absolute stereochemistry.



RN 917960-26-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-ethylphenyl)-3,6,7,8-tetrahydro-N,N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

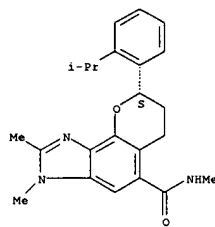
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-27-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-trimethyl-8-[2-(1-methylethyl)phenyl]-, (8S)- (CA INDEX NAME)

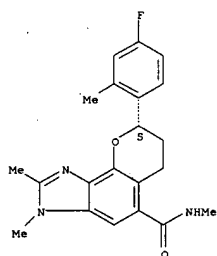
Absolute stereochemistry.



RN 917960-28-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(4-fluoro-2-methylphenyl)-3,6,7,8-tetrahydro-N,N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

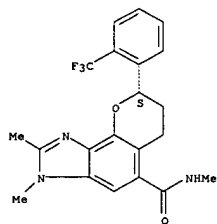
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-29-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-trimethyl-8-[2-(trifluoromethyl)phenyl]-, (8S)- (CA INDEX NAME)

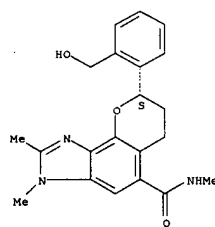
Absolute stereochemistry.



RN 917960-30-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[2-(hydroxymethyl)phenyl]-N,N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

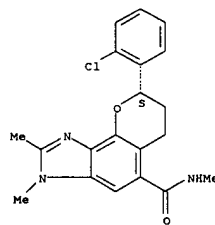
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-31-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-chlorophenyl)-3,6,7,8-tetrahydro-N,N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

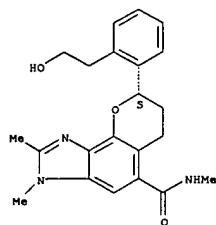


RN 917960-32-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[2-(2-hydroxyethyl)phenyl]-N,N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

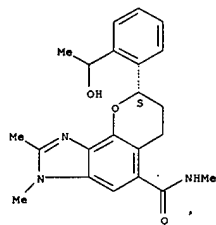
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-33-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[2-(1-hydroxyethyl)phenyl]-N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

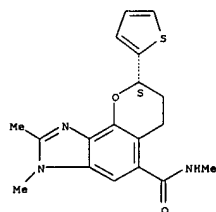
Absolute stereochemistry.



RN 917960-34-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-[2-[(phenylmethoxy)methyl]phenyl]-, (8S)- (CA INDEX NAME)

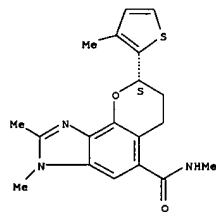
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-37-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

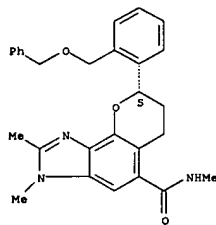
Absolute stereochemistry.



RN 917960-38-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

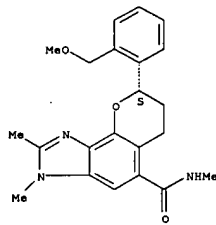
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-35-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-[2-(methoxymethyl)phenyl]-N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

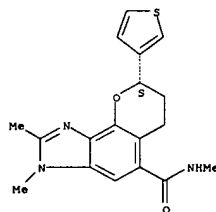
Absolute stereochemistry.



RN 917960-36-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

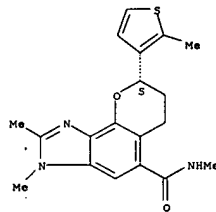
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-39-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

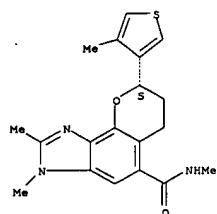


RN 917960-40-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

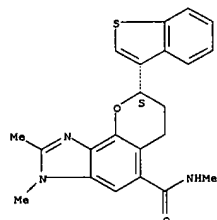
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-41-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-benzo[b]thien-3-yl-3,6,7,8-tetrahydro-N,2,3-trimethyl-, (8S)- (CA INDEX NAME)

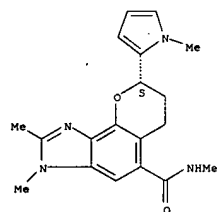
Absolute stereochemistry.



RN 917960-42-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

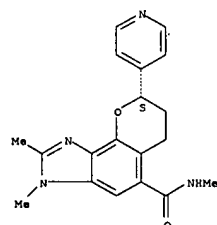
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-45-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

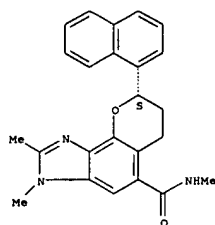
Absolute stereochemistry.



RN 917960-46-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-8-(2-ethylphenyl)-3,6,7,8-tetrahydro-2,3-dimethyl-, (8S)- (CA INDEX NAME)

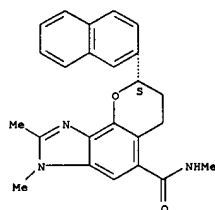
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-43-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

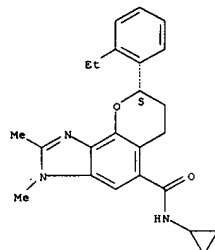
Absolute stereochemistry.



RN 917960-44-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

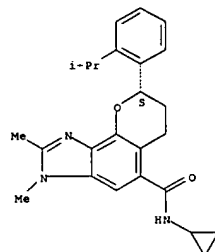
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-47-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-3,6,7,8-tetrahydro-2,3-dimethyl-8-(2-(1-methylethyl)phenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

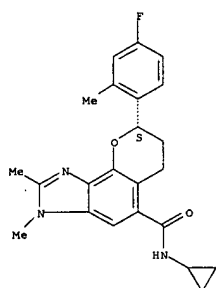


RN 917960-48-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-8-(4-fluoro-2-methylphenyl)-3,6,7,8-tetrahydro-2,3-dimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

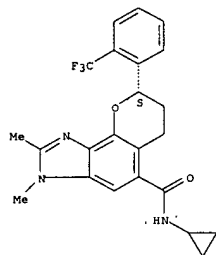
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-49-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-[(2-(trifluoromethyl)phenyl)]-, (8S)- (CA INDEX NAME)

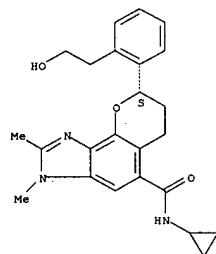
Absolute stereochemistry.



RN 917960-50-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
8-[2-(hydroxymethyl)phenyl]-2,3-dimethyl-, (8S)- (CA INDEX NAME)

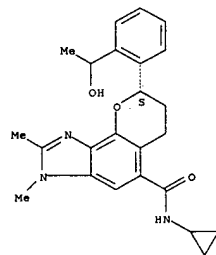
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-53-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
8-[2-(1-hydroxyethyl)phenyl]-2,3-dimethyl-, (8S)- (CA INDEX NAME)

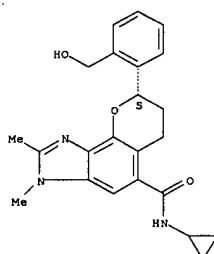
Absolute stereochemistry.



RN 917960-54-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-[(phenylmethoxy)methyl]phenyl]-, (8S)- (CA INDEX NAME)

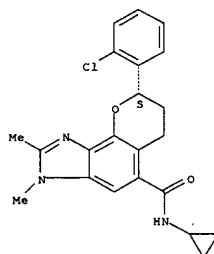
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-51-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
8-(2-chlorophenyl)-N-cyclopropyl-
3,6,7,8-tetrahydro-2,3-dimethyl-, (8S)- (CA INDEX NAME)

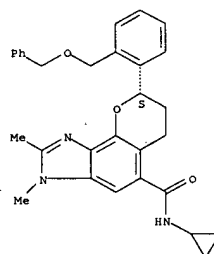
Absolute stereochemistry.



RN 917960-52-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
8-[2-(2-hydroxyethyl)phenyl]-2,3-dimethyl-, (8S)- (CA INDEX NAME)

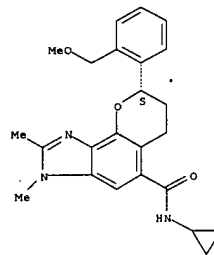
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-55-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
8-[2-(methoxymethyl)phenyl]-2,3-dimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

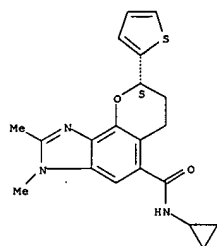


RN 917960-56-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

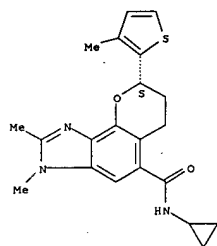
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-57-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

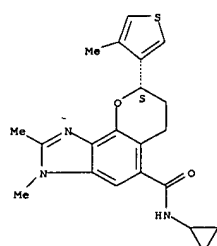
Absolute stereochemistry.



RN 917960-58-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

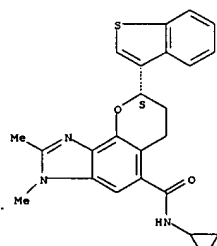
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-61-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-benzo[b]thien-3-yl-N-
cyclopropyl-3,6,7,8-tetrahydro-2,3-dimethyl-, (8S)- (CA INDEX NAME)

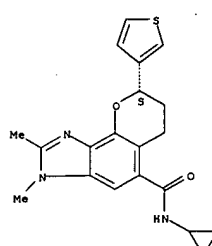
Absolute stereochemistry.



RN 917960-62-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

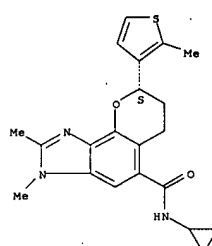
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-59-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

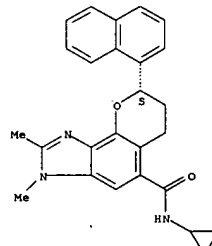
Absolute stereochemistry.



RN 917960-60-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

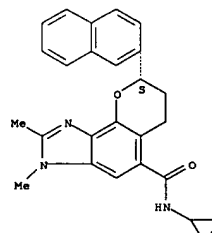
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-63-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

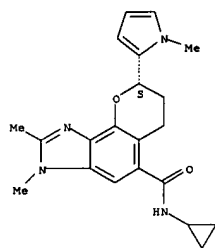


RN 917960-64-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

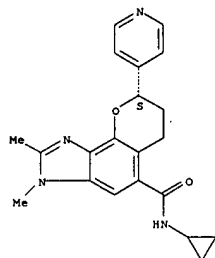
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-65-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-6-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

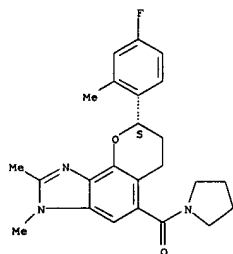
Absolute stereochemistry.



RN 917960-66-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

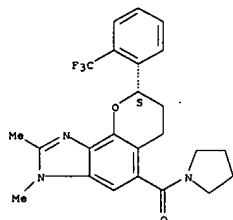
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-69-1 HCAPLUS
CN Methanone, 1-pyrrolidinyl[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-[2-(trifluoromethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

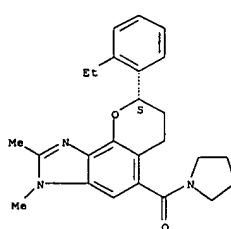
Absolute stereochemistry.



RN 917960-70-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

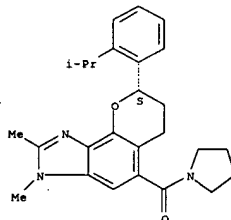
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-67-9 HCAPLUS
CN Methanone, 1-pyrrolidinyl[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-[2-(1-methylethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

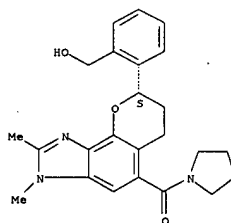
Absolute stereochemistry.



RN 917960-68-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

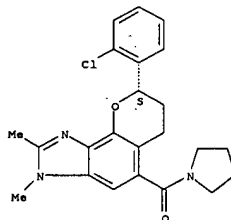
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-71-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

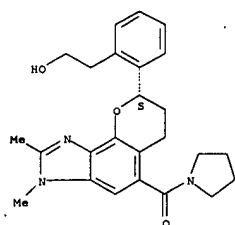


RN 917960-72-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

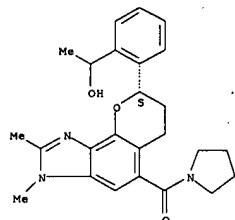
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-73-7 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

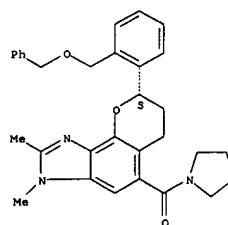
Absolute stereochemistry.



RN 917960-74-8 HCAPLUS
CN Methanone, 1-pyrrolidinyl[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-6-[2-[(phenylmethoxy)methyl]phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

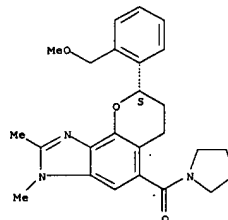
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-75-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

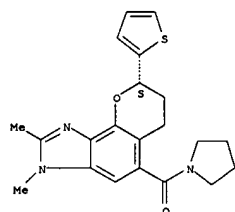
Absolute stereochemistry.



RN 917960-76-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

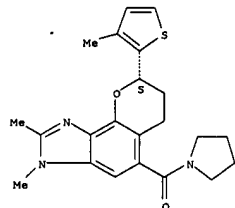
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-77-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

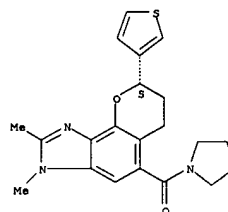
Absolute stereochemistry.



RN 917960-78-2 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

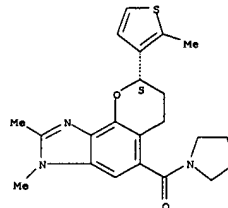
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-79-3 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

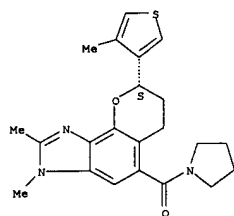


RN 917960-80-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

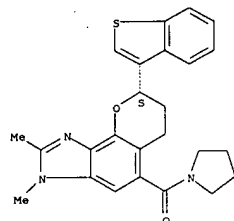
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-81-7 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

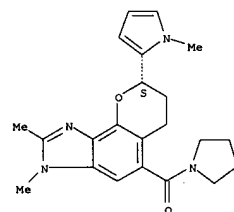
Absolute stereochemistry.



RN 917960-82-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

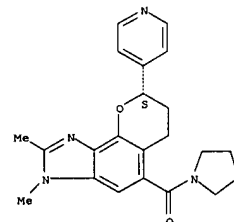
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-85-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

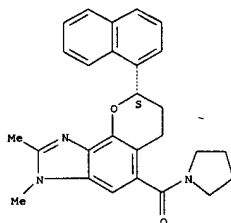
Absolute stereochemistry.



RN 917960-86-2 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

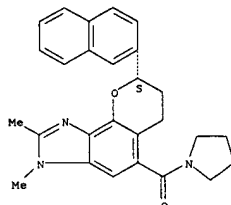
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-83-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

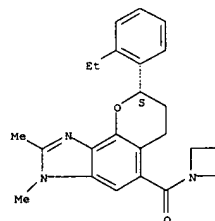
Absolute stereochemistry.



RN 917960-84-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

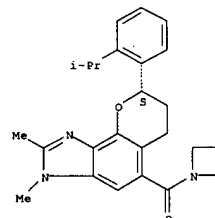
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-87-3 HCAPLUS
CN Methanone, 1-azetidinyll[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-[2-(1-methylethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

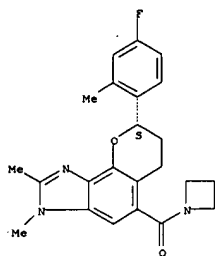


RN 917960-88-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

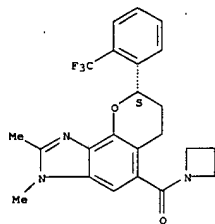
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-89-5 HCAPLUS
CN Methanone, 1-acetidinyl[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-(2-(trifluoromethyl)phenyl)pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

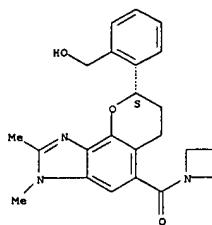
Absolute stereochemistry.



RN 917960-90-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

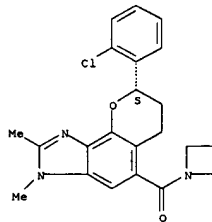
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-91-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

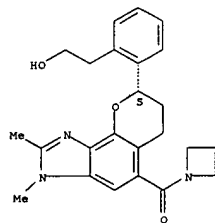
Absolute stereochemistry.



RN 917960-92-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

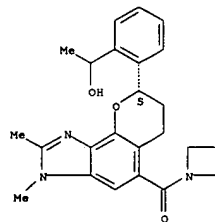
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-93-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

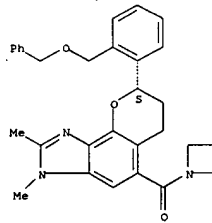
Absolute stereochemistry.



RN 917960-94-2 HCAPLUS
CN Methanone, 1-acetidinyl[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-[(phenylmethoxy)methyl]phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

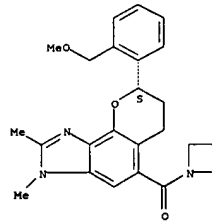
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-95-3 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

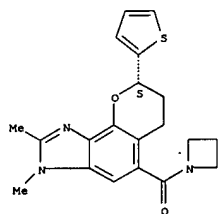


RN 917960-96-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

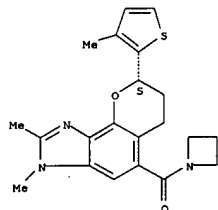
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-97-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

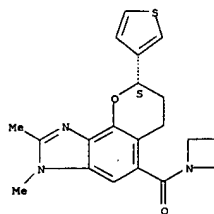
Absolute stereochemistry.



RN 917960-98-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

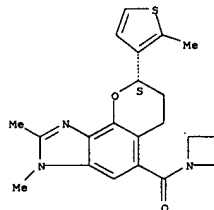
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917960-99-7 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

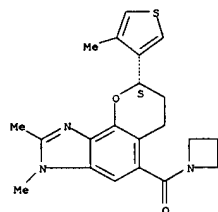
Absolute stereochemistry.



RN 917961-00-3 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

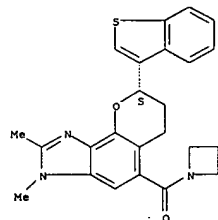
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-01-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

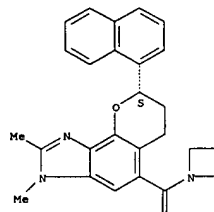
Absolute stereochemistry.



RN 917961-02-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

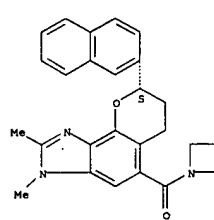
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-03-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

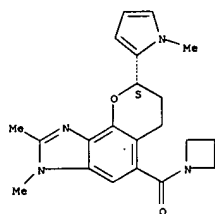


RN 917961-04-7 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

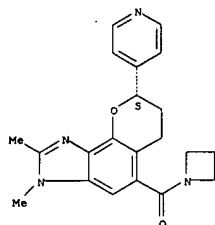
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-05-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

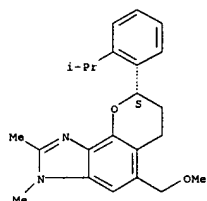
Absolute stereochemistry.



RN 917961-06-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

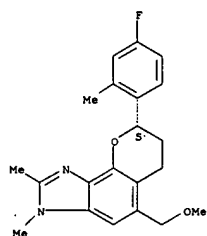
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-09-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(4-fluoro-2-methylphenyl)-, (8S)- (CA INDEX NAME)

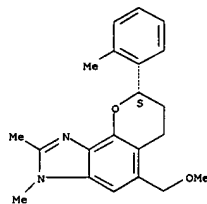
Absolute stereochemistry.



RN 917961-10-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-[2-(trifluoromethyl)phenyl]-, (8S)- (CA INDEX NAME)

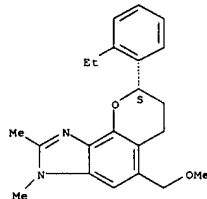
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-07-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 8-(2-ethylphenyl)-3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-, (8S)- (CA INDEX NAME)

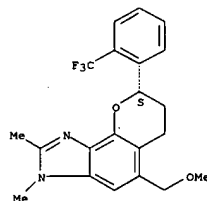
Absolute stereochemistry.



RN 917961-08-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-[2-(1-methylethyl)phenyl]-, (8S)- (CA INDEX NAME)

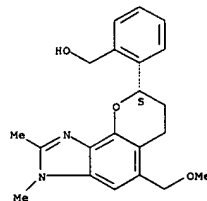
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



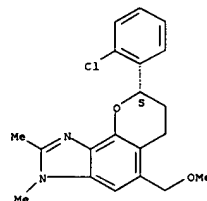
RN 917961-11-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



RN 917961-12-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 8-(2-chlorophenyl)-3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-, (8S)- (CA INDEX NAME)

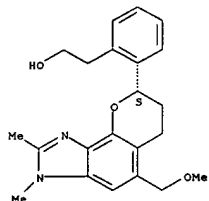
Absolute stereochemistry.



10511049

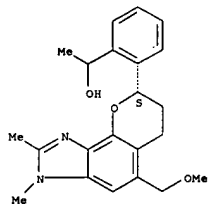
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RN 917961-14-9 HCAPLUS
 CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



RN 917961-15-0 HCAPLUS
 CN INDEX NAME NOT YET ASSIGNED

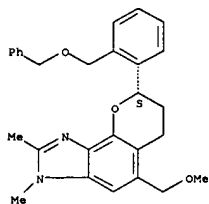
Absolute stereochemistry.



RN 917961-16-1 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-[(phenylmethoxy)methyl]phenyl-, (8S)- (CA INDEX NAME)

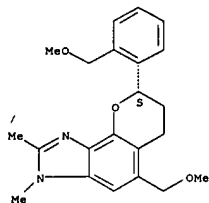
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-19-4 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-8-[2-(methoxymethyl)phenyl]-2,3-dimethyl-, (8S)- (CA INDEX NAME)

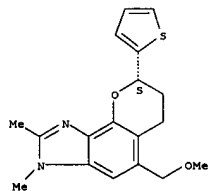
Absolute stereochemistry.



RN 917961-21-8 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

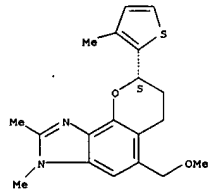
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



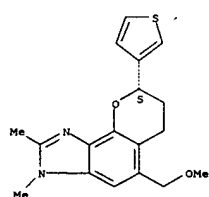
RN 917961-23-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917961-25-2 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

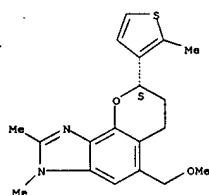
Absolute stereochemistry.



RN 917961-27-4 HCAPLUS

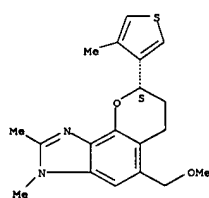
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917961-29-6 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

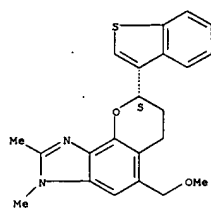


RN 917961-31-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 8-benzo[b]thien-3-yl-3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

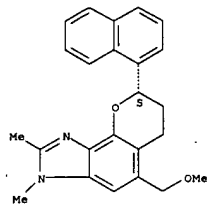
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-33-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

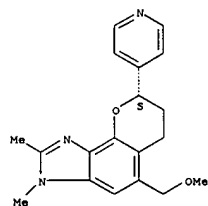
Absolute stereochemistry.



RN 917961-35-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

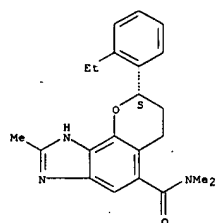
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-42-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-ethylphenyl)-1,6,7,8-tetrahydro-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

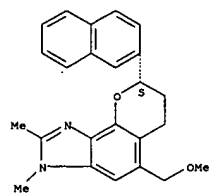
Absolute stereochemistry.



RN 917961-44-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-[2-(1-methylethyl)phenyl]-, (8S)- (CA INDEX NAME)

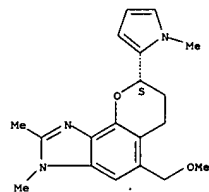
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-37-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

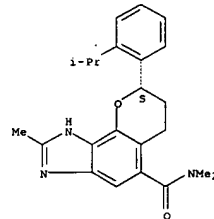
Absolute stereochemistry.



RN 917961-39-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

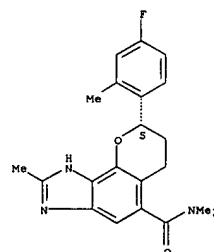
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-46-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(4-iodo-2-methylphenyl)-1,6,7,8-tetrahydro-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

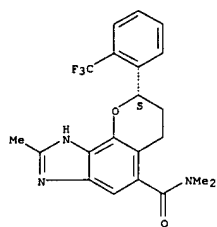


RN 917961-48-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(2-(trifluoromethyl)phenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

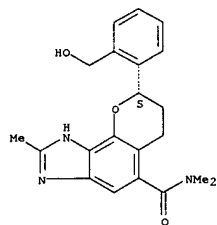
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-50-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(hydroxymethyl)phenyl]-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

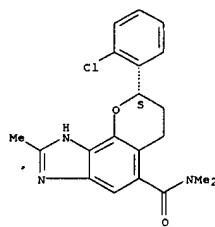
Absolute stereochemistry.



RN 917961-52-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-chlorophenyl)-1,6,7,8-tetrahydro-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

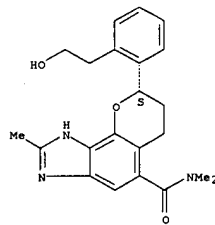
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-54-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(2-hydroxyethyl)phenyl]-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

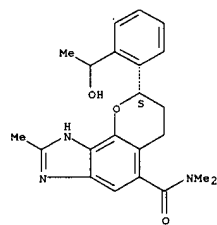
Absolute stereochemistry.



RN 917961-56-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(1-hydroxyethyl)phenyl]-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

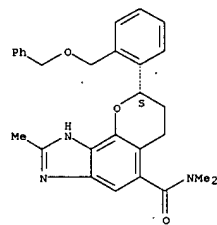
Absolute stereochemistry..

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-60-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-[2-[(phenylmethoxy)methyl]phenyl]-, (8S)- (CA INDEX NAME)

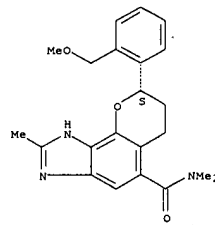
Absolute stereochemistry.



RN 917961-63-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(methoxymethyl)phenyl]-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

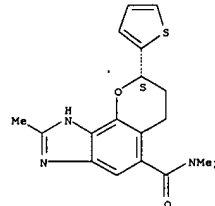
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-66-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

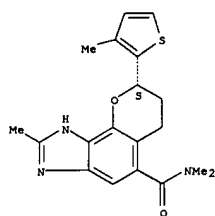


RN 917961-68-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

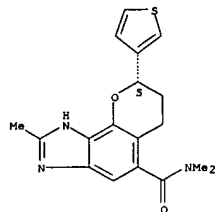
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-70-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

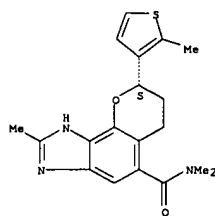
Absolute stereochemistry.



RN 917961-72-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

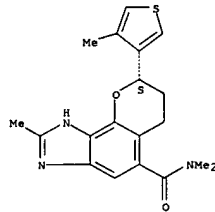
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-74-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

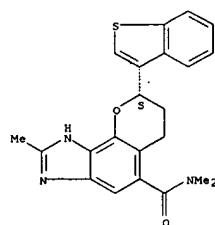
Absolute stereochemistry.



RN 917961-76-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-benzo[b]thien-3-yl-1,6,7,8-tetrahydro-N,N,2-trimethyl-, (8S)- (CA INDEX NAME)

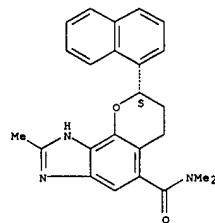
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-78-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

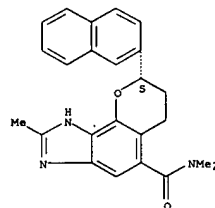
Absolute stereochemistry.



RN 917961-79-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

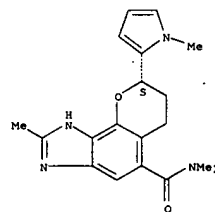
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-81-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

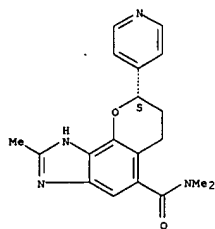


RN 917961-82-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

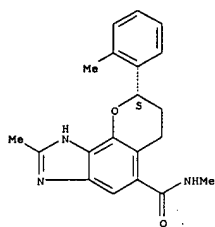
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-83-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
1,6,7,8-tetrahydro-N,2-dimethyl-
8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

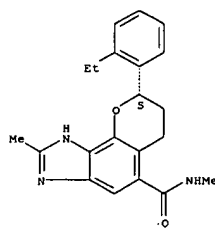
Absolute stereochemistry.



RN 917961-84-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-ethylphenyl)-1,6,7,8-
tetrahydro-N,2-dimethyl-, (8S)- (CA INDEX NAME)

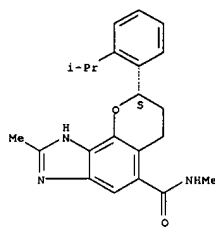
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-85-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
1,6,7,8-tetrahydro-N,2-dimethyl-
8-[2-(1-methylethyl)phenyl]-, (8S)- (CA INDEX NAME)

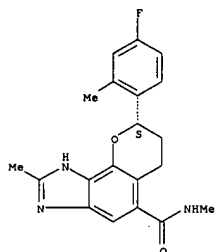
Absolute stereochemistry.



RN 917961-86-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(4-fluoro-2-methylphenyl)-
1,6,7,8-tetrahydro-N,2-dimethyl-, (8S)- (CA INDEX NAME)

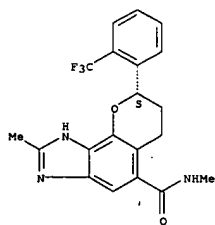
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-87-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
1,6,7,8-tetrahydro-N,2-dimethyl-
8-[2-(trifluoromethyl)phenyl]-, (8S)- (CA INDEX NAME)

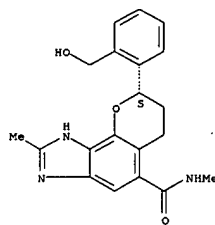
Absolute stereochemistry.



RN 917961-88-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(
hydroxymethyl)phenyl]-N,2-dimethyl-, (8S)- (CA INDEX NAME)

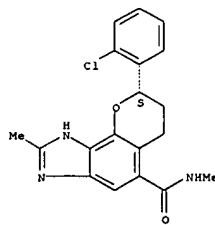
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-89-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-chlorophenyl)-1,6,7,8-
tetrahydro-N,2-dimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

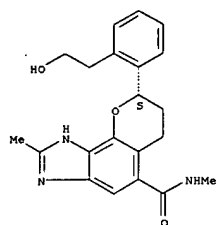


RN 917961-90-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(2-
hydroxyethyl)phenyl]-N,2-dimethyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

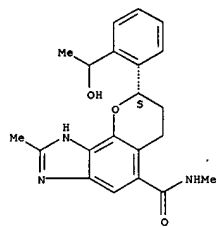
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-91-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(1-hydroxyethyl)phenyl]-N,2-dimethyl-, (8S)- (CA INDEX NAME)

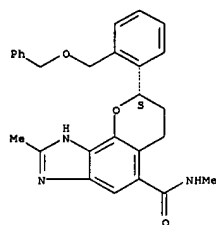
Absolute stereochemistry.



RN 917961-92-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-[2-[(phenylmethoxy)methyl]phenyl]-, (8S)- (CA INDEX NAME)

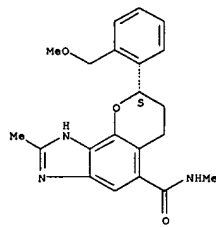
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-93-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-8-[2-(methoxymethyl)phenyl]-N,2-dimethyl-, (8S)- (CA INDEX NAME)

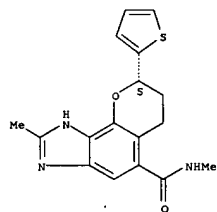
Absolute stereochemistry.



RN 917961-94-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

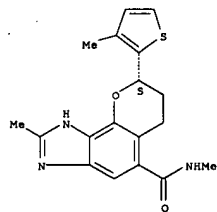
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-95-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

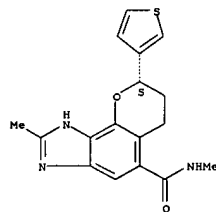
Absolute stereochemistry.



RN 917961-96-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

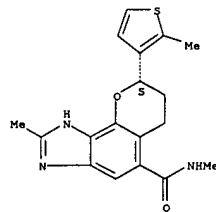
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-97-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

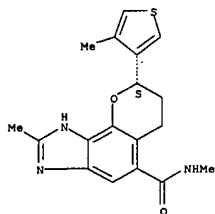


RN 917961-98-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

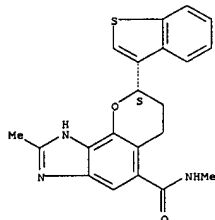
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917961-99-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-benzo[b]thien-3-yl-1,6,7,8-tetrahydro-N,2-dimethyl-, (8S)- (CA INDEX NAME)

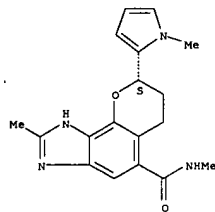
Absolute stereochemistry.



RN 917962-00-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

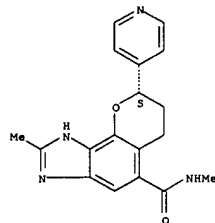
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-03-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

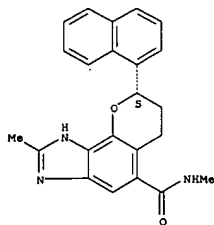
Absolute stereochemistry.



RN 917962-04-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-2-methyl-8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

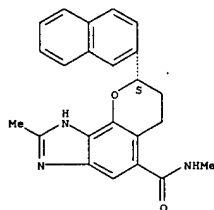
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-01-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

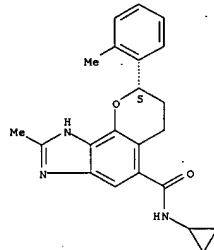
Absolute stereochemistry.



RN 917962-02-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,2-dimethyl-8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

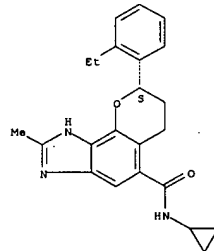
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-05-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-8-(2-ethylphenyl)-1,6,7,8-tetrahydro-2-methyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

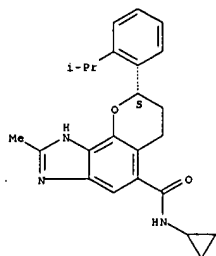


RN 917962-06-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-2-methyl-8-(2-(1-methylethyl)phenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

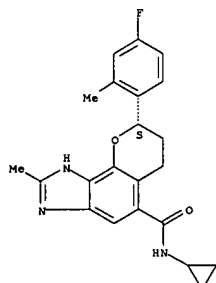
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-07-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-8-(4-fluoro-2-methylphenyl)-1,6,7,8-tetrahydro-2-methyl-, (8S)- (CA INDEX NAME)

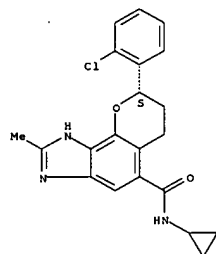
Absolute stereochemistry.



RN 917962-08-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-8-[2-(trifluoromethyl)phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

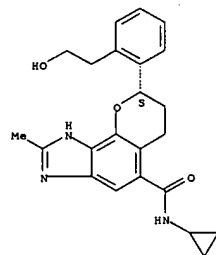
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-11-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-8-[2-(2-hydroxyethyl)phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

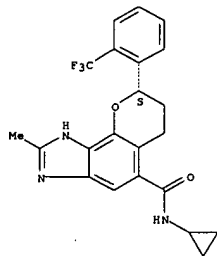
Absolute stereochemistry.



RN 917962-12-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-8-[2-(1-hydroxyethyl)phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

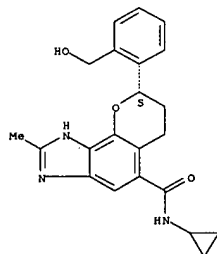
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-09-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-8-[2-(hydroxymethyl)phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

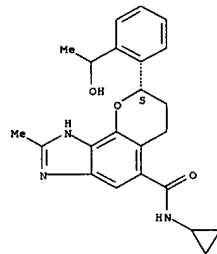
Absolute stereochemistry.



RN 917962-10-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-(2-chlorophenyl)-N-cyclopropyl-1,6,7,8-tetrahydro-2-methyl-, (8S)- (CA INDEX NAME)

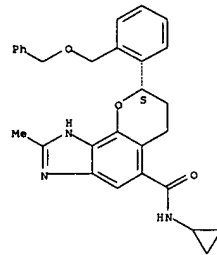
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-13-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-2-methyl-8-[2-[(phenylmethoxy)methyl]phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

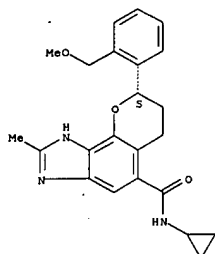


RN 917962-15-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-1,6,7,8-tetrahydro-8-[2-(methoxymethyl)phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

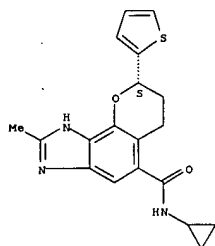
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-16-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

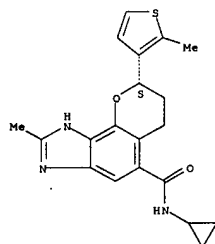
Absolute stereochemistry.



RN 917962-17-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

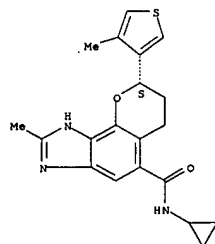
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-20-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

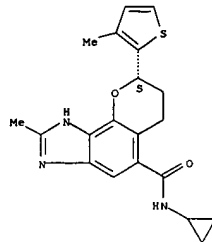
Absolute stereochemistry.



RN 917962-21-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 8-benzo[b]thien-3-yl-N-
cyclopropyl-1,6,7,8-tetrahydro-2-methyl-, (8S)- (CA INDEX NAME)

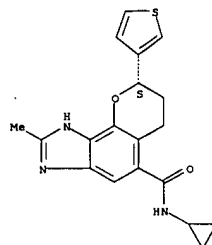
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-18-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

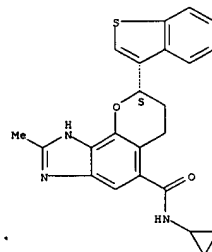
Absolute stereochemistry.



RN 917962-19-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

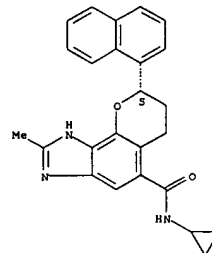
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-22-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

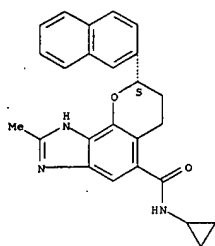


RN 917962-23-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

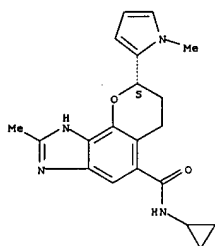
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-24-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(1-methyl-1H-pyrazol-2-yl)-, (8S)- (CA INDEX NAME)

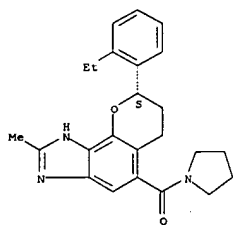
Absolute stereochemistry.



RN 917962-25-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-1,6,7,8-tetrahydro-
2-methyl-8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

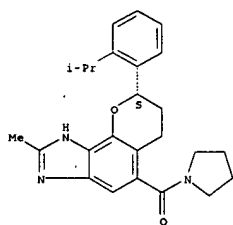
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-28-8 HCAPLUS
CN Methanone, 1-pyrrolidinyl[(8S)-1,6,7,8-tetrahydro-2-methyl-8-[2-(1-methylethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

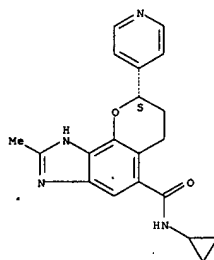
Absolute stereochemistry.



RN 917962-29-9 HCAPLUS
CN Methanone, [(8S)-8-(4-fluoro-2-methylphenyl)-1,6,7,8-tetrahydro-2-methylpyrano[2,3-e]benzimidazol-5-yl]-1-pyrrolidinyl- (CA INDEX NAME)

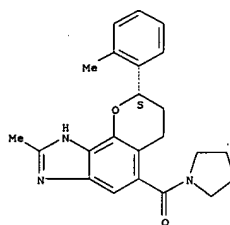
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-26-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

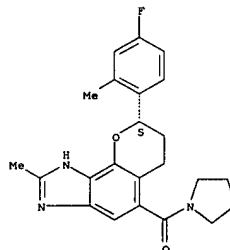
Absolute stereochemistry.



RN 917962-27-7 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

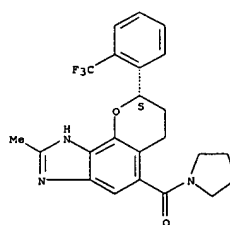
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-30-2 HCAPLUS
CN Methanone, 1-pyrrolidinyl[(8S)-1,6,7,8-tetrahydro-2-methyl-8-[2-(trifluoromethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

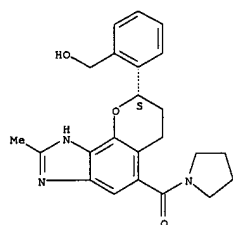


RN 917962-31-3 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

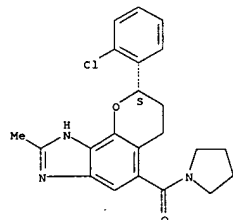
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-32-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

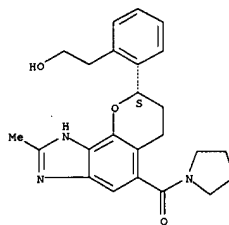
Absolute stereochemistry.



RN 917962-33-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

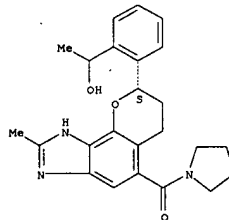
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-34-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

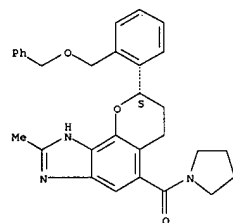
Absolute stereochemistry.



RN 917962-35-7 HCAPLUS
CN Methanone, 1-pyrrolidinyl[(8S)-1,6,7,8-tetrahydro-2-methyl-8-[[[(phenylmethoxy)methyl]phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

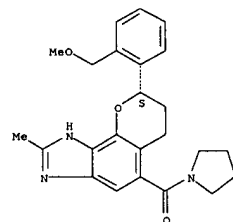
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-36-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

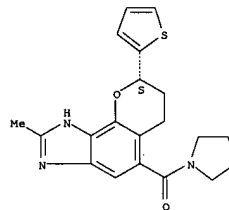
Absolute stereochemistry.



RN 917962-37-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

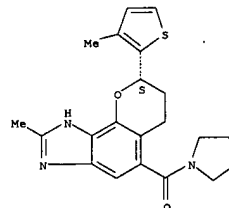
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-38-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

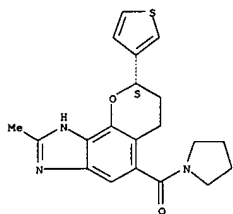


RN 917962-39-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

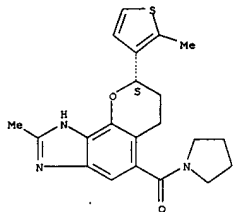
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-40-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

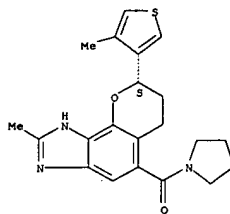
Absolute stereochemistry.



RN 917962-41-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

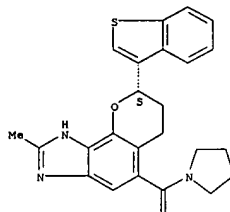
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-42-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

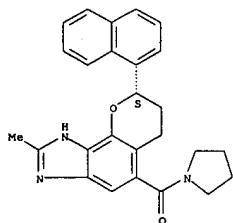
Absolute stereochemistry.



RN 917962-43-7 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

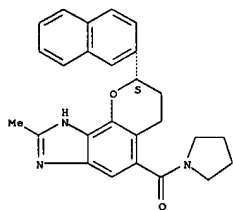
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-44-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

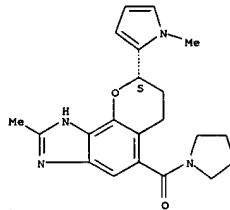
Absolute stereochemistry.



RN 917962-45-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

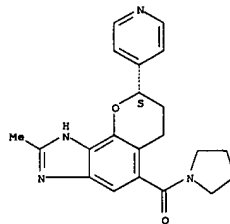
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-46-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

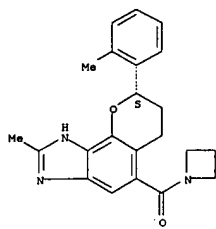


RN 917962-47-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

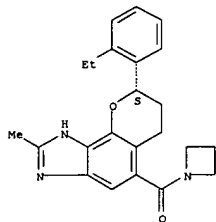
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-48-2 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

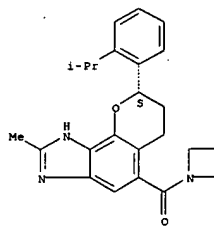
Absolute stereochemistry.



RN 917962-49-3 HCAPLUS
CN Methanone, 1-azetidinyll[(8S)-1,6,7,8-tetrahydro-2-methyl-8-[2-(1-methylethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

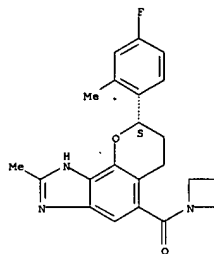
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-50-6 HCAPLUS
CN Methanone, 1-azetidinyll[(8S)-8-(4-fluoro-2-methylphenyl)-1,6,7,8-tetrahydro-2-methylpyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

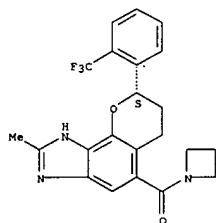
Absolute stereochemistry.



RN 917962-51-7 HCAPLUS
CN Methanone, 1-azetidinyll[(8S)-1,6,7,8-tetrahydro-2-methyl-8-[2-(trifluoromethyl)phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX NAME)

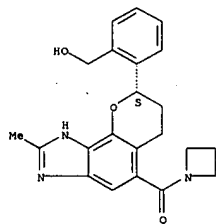
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-52-8 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

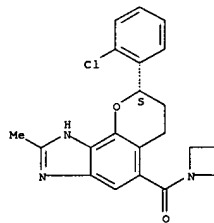
Absolute stereochemistry.



RN 917962-53-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

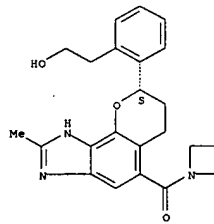
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-54-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

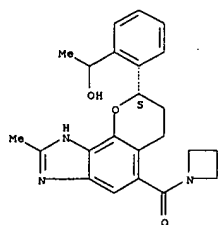


RN 917962-55-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

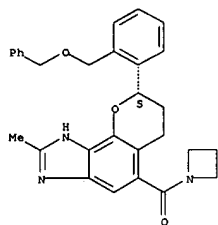
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



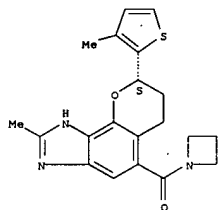
RN 917962-56-2 HCAPLUS
CN Methanone, 1-azetidinyll[(8S)-1,6,7,8-tetrahydro-2-methyl-8-[2-
[(phenylmethoxy)methyl]phenyl]pyrano[2,3-e]benzimidazol-5-yl]- (CA INDEX
NAME)

Absolute stereochemistry.

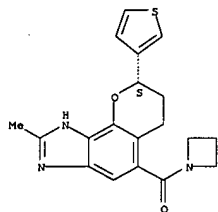


IT 917962-57-3P 917962-58-4P 917962-59-5P
917962-61-9P 917962-62-0P 917962-63-1P
917962-64-2P 917962-65-3P 917962-66-4P
918105-18-7P 918130-96-8P
RL: IMP (Industrial manufacture); PAC (Pharmacological activity); SPN
(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
PREP (Preparation); USES (Uses)
(process for the preparation of tricyclic benzimidazoles via
ruthenium-catalyzed stereoselective hydrogenation reaction for the
treatment of gastrointestinal disorders)
RN 917962-57-3 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



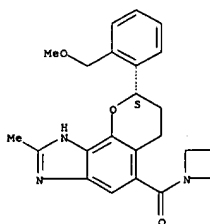
RN 917962-61-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.



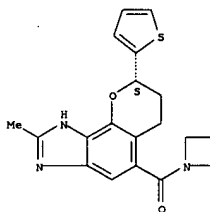
RN 917962-62-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.

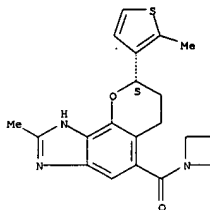


RN 917962-58-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.

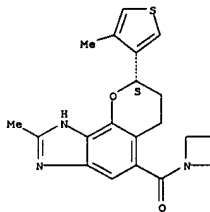


RN 917962-59-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



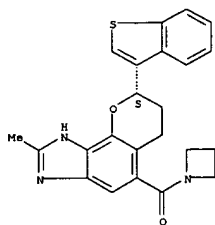
RN 917962-63-1 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.



RN 917962-64-2 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.

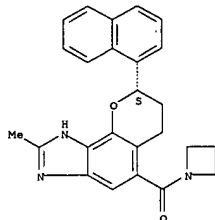
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-65-3 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

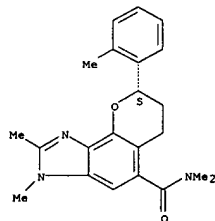
Absolute stereochemistry.



RN 917962-66-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

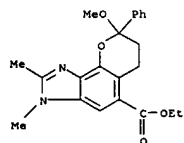
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



● HCl

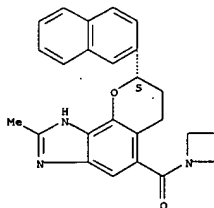
IT 911048-70-9P 911048-71-OP 911048-72-1P
911048-76-5P 917957-43-8P 917957-44-9P
917957-45-OP 917957-47-2P 917957-49-4P
917957-56-3P 917957-58-5P 917957-59-6P
917957-60-9P
RL: IMP (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (process for the preparation of tricyclic benzimidazoles via ruthenium-catalyzed stereoselective hydrogenation reaction for the treatment of gastrointestinal disorders)

RN 911048-70-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid, 3,6,7,8-tetrahydro-8-methoxy-2,3-dimethyl-8-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



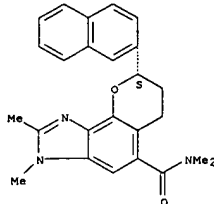
RN 911048-71-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid, 3,6,7,8-tetrahydro-8-methoxy-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 918105-18-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

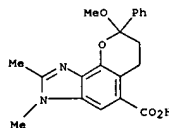
Absolute stereochemistry. Rotation (-).



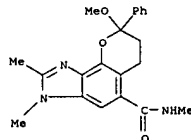
RN 918130-96-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-(2-methylphenyl)-, hydrochloride (1:1), (8S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

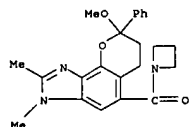
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 911048-72-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-methoxy-N,2,3-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)



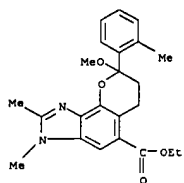
RN 911048-76-5 HCAPLUS
CN Azetidine, 1-[(3,6,7,8-tetrahydro-8-methoxy-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)



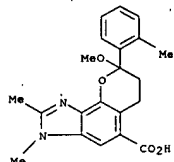
RN 917957-43-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid, 3,6,7,8-tetrahydro-8-methoxy-2,3-dimethyl-8-(2-methylphenyl)-, ethyl ester (CA INDEX NAME)

10511049

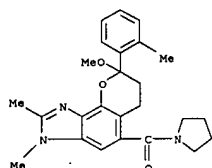
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917957-44-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid,
3,6,7,8-tetrahydro-8-methoxy-
2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)



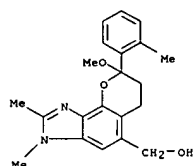
RN 917957-45-0 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED



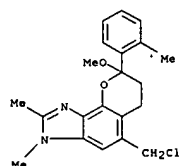
RN 917957-47-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-methoxy-
2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

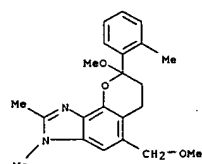
RN 917957-58-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-methanol, 3,6,7,8-tetrahydro-8-methoxy-2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)



RN 917957-59-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole,
5-(chloromethyl)-3,6,7,8-tetrahydro-8-methoxy-
2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)

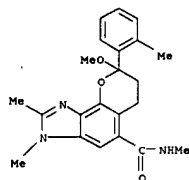


RN 917957-60-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole,
3,6,7,8-tetrahydro-8-methoxy-5-(methoxymethyl)-
2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)

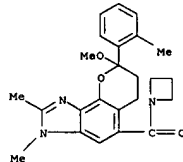


IT 917962-67-5P 917962-68-6P 917962-69-7P

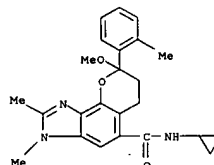
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
N,2,3-trimethyl-8-(2-methylphenyl)- (CA INDEX NAME)



RN 917957-49-4 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 917957-56-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
8-methoxy-2,3-dimethyl-8-(2-methylphenyl)- (CA INDEX NAME)



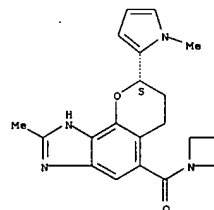
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

917962-70-0P 917962-71-1P 917962-72-2P
917962-73-3P 917962-74-4P 917962-75-5P
917962-76-6P 917962-77-7P 917962-78-8P
917962-79-9P 917962-80-2P 917962-81-3P
917962-82-4P 917962-83-5P 917962-84-6P
917962-85-7P 917962-86-8P 917962-87-9P
917962-88-0P 917962-89-1P
RL: IMP (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for the prepn. of tricyclic benzimidazoles via ruthenium-catalyzed stereoselective hydrogenation reaction for the treatment of gastrointestinal disorders)

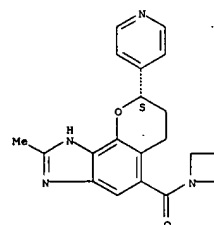
RN 917962-67-5 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



RN 917962-68-6 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

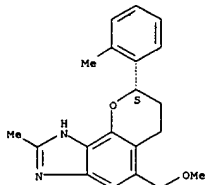


RN 917962-69-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole,
1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-
3-(2-methylphenyl)- (CA INDEX NAME)

10511049

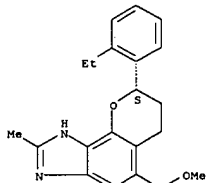
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
8-(2-methylphenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917962-70-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 8-(2-ethylphenyl)-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-, (8S)- (CA INDEX NAME)

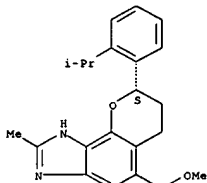
Absolute stereochemistry.



RN 917962-71-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-[2-(1-methylethyl)phenyl]-, (8S)- (CA INDEX NAME)

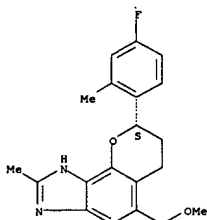
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-72-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 8-(4-fluoro-2-methylphenyl)-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-, (8S)- (CA INDEX NAME)

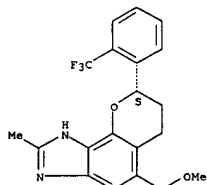
Absolute stereochemistry.



RN 917962-73-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-[2-(trifluoromethyl)phenyl]-, (8S)- (CA INDEX NAME)

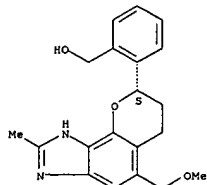
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



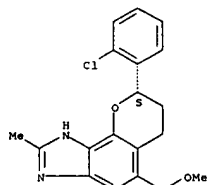
RN 917962-74-4 HCAPLUS
CN Benzenemethanol, 2-[(8S)-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methylpyrano[2,3-e]benzimidazol-8-yl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 917962-75-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 8-(2-chlorophenyl)-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-, (8S)- (CA INDEX NAME)

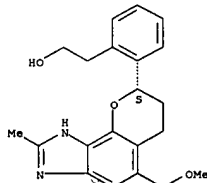
Absolute stereochemistry.



RN 917962-76-6 HCAPLUS
CN Benzenemethanol, 2-[(8S)-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-

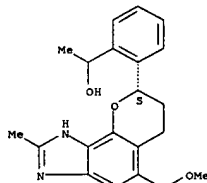
L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
methylpyrano[2,3-e]benzimidazol-8-yl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 917962-77-7 HCAPLUS
CN Benzenemethanol, α-methyl-2-[(8S)-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methylpyrano[2,3-e]benzimidazol-8-yl]- (CA INDEX NAME)

Absolute stereochemistry.

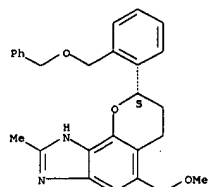


RN 917962-78-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-[2-[(phenylmethoxymethyl)phenyl]-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

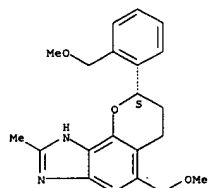
10511049

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-79-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-8-[2-(methoxymethyl)phenyl]-2-methyl-, (8S)- (CA INDEX NAME)

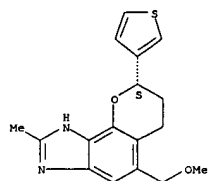
Absolute stereochemistry.



RN 917962-80-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(2-thienyl)-, (8S)- (CA INDEX NAME)

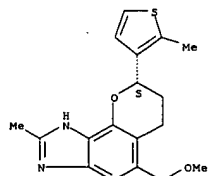
Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



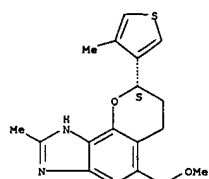
RN 917962-83-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(2-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

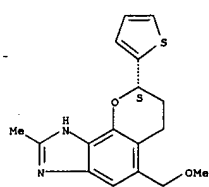


RN 917962-84-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(4-methyl-3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

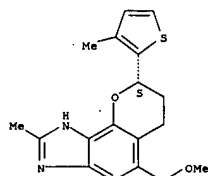


L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-81-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(3-methyl-2-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



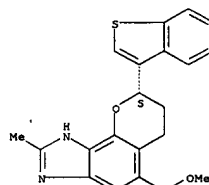
RN 917962-82-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(3-thienyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

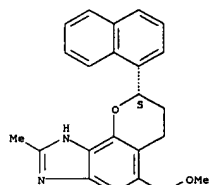
RN 917962-85-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 8-benzo[b]thien-3-yl-1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917962-86-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(1-naphthalenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

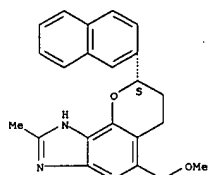


RN 917962-87-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-8-(2-naphthalenyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

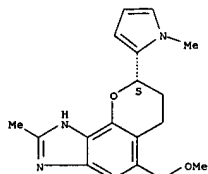
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L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 917962-89-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole,
 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-
 8-(1-methyl-1H-pyrrol-2-yl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917962-89-1 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole,
 1,6,7,8-tetrahydro-5-(methoxymethyl)-2-methyl-
 8-(4-pyridinyl)-, (8S)- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 09 Nov 2006

ACCESSION NUMBER: 2006:1174240 HCAPLUS

DOCUMENT NUMBER: 145:489254

TITLE: Preparation of mutual prodrug compounds for use as
 antiinflammatory agents with gastrointestinal
 protective activity

INVENTOR(S): Brehm, Christof; Klein, Thomas; Buhr, Wilm; Chiesa,
 Maria Vittoria; Palmer, Andreas; Zimmermann, Peter
 Jan; Simon, Wolfgang-Alexander; Postius, Stefan;
 Kromer, Wolfgang; Grundler, Gerhard
 Altana Pharma A.-G., Germany

PATENT ASSIGNEE(S):
 SOURCE: PCT Int. Appl., 72pp.
 CODEN: PIXX2D

DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

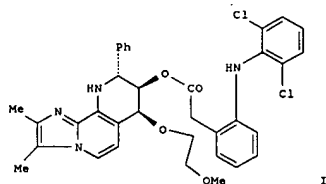
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006117316	A1	20061109	WO 2006-EP61856	20060426
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPL. INFO.: EP 2005-103585 A 20050429

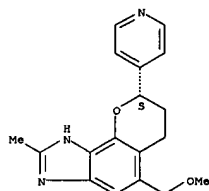
OTHER SOURCE(S): MARPAT 145:489254

GI



AB The invention concerns A-Y-X-z-C(O)O-B (A is derived from ACO2H having
 antipyretic, analgesic, antiphlogistic and/or antiinflammatory
 properties;

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

B is derived from HOB that are potassium competitive acid blockers; X =
 bond or linker (e.g. (un)substituted -(CH2)nOm(CH2)pOq(CH2)r (n = 1-7; m

= 0, 1; p = 0-7; q = 0, 1; r = 0-7)); Y = -C(O)O- with A attached to the
 carbonyl carbon; z = bond, -O-, -CHRI- or -NRI- (RI = H or C1-4 alkyl);

or
 X, Y and z together form a bond; addnl. details including provisos are
 given in the claims; e.g. [2-[(2,6-dichlorophenyl)amino]phenyl]acetic
 acid

(7S,8R,9R)-2,3-dimethyl-7-(2-methoxyethoxy)-9-phenyl-7,8,9,10-
 tetrahydroimidazo[1,2-h][1,7]naphthyridin-8-yl ester (shown as I)) and
 their salts. The compds. are prodrugs and exhibit in the human and/or
 animal body antipyretic, analgesic, antiphlogistic and/or

antiinflammatory
 activity as well as gastric acid secretion inhibiting and therefore
 gastro

and intestinal protective activity. Although the methods of prepn. are
 not claimed, prepn. and/or characterization data for 23 examples of I
 are

included. For example, I was prepd. from [2-(2,6-
 dichlorophenylamino)phenyl]acetic acid and (7S,8R,9R)-8-hydroxy-2,3-
 dimethyl-7-(2-methoxyethoxy)-9-phenyl-7,8,9,10-tetrahydroimidazo[1,2-
 h][1,7]naphthyridine using N,N-carbonyldiimidazole in CH2Cl2. Data are
 provided for the inhibition of gastric acid secretion by 2 examples of I
 and for inhibition of COX-1/2 by 11 examples of I.

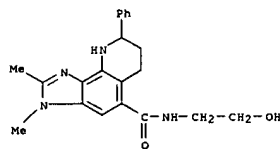
IT 774582-22-8, 2,3-Dimethyl-8-phenyl-6,7,8,9-tetrahydro-3H-
 imidazo[4,5-b]quinoline-5-carboxylic acid N-(2-hydroxyethyl)amide

774582-26-2, 5-Hydroxymethyl-2,3-dimethyl-8-phenyl-6,7,8,9-
 tetrahydro-3H-imidazo[4,5-b]quinoline

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of mutual prodrug compds. for use as antiinflammatory
 agents
 with gastrointestinal protective activity)

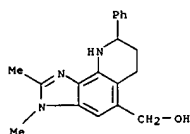
RN 774582-22-8 HCAPLUS
 CN 3H-Imidazo[4,5-b]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N-(2-
 hydroxyethyl)-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 774582-26-2 HCAPLUS
 CN 3H-Imidazo[4,5-b]quinoline-5-methanol, 6,7,8,9-tetrahydro-2,3-dimethyl-8-
 phenyl- (9CI) (CA INDEX NAME)

10511049

L4 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 28 Sep 2006

ACCESSION NUMBER: 2006:1005308 HCAPLUS

DOCUMENT NUMBER: 145:377336

TITLE: Preparation of fused benzimidazolethioamides for the treatment of gastrointestinal diseases
 INVENTOR(S): Chiesa, Maria Vittoria; Zimmermann, Peter Jan; Buhr, Wilb; Brehm, Christof; Palmer, Andreas; Simon, Wolfgang-Alexander; Kromer, Wolfgang; Postius, Stefan;

PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany
 SOURCE: PCT Int. Appl., 39pp.
 CODEN: PIXXDZ

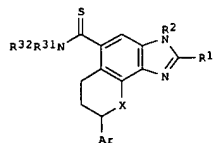
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006100255	AI	20060928	WO 2006-EP60936	20060322
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, SF, BJ, CF, CG, CI, CM, GA, GM, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			EP 2005-102407	A 20050324
			EP 2005-107518	A 20050816
OTHER SOURCE(S):		MARPAT 145:377336		
GI				



L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Title compds. [I: R1 = H, halo, OH, alkyl, cycloalkyl, alkoxy, alkoxy carbonyl, alkenyl, alkynyl, alkylamino, hydroxyalkyl, etc.; R2 = H, alkyl, alkoxy, alkoxyalkyl, aryl, cycloalkyl, cycloalkylalkyl, hydroxyalkyl, fluoroalkyl, etc.; R31 = H, OH, alkyl, cycloalkyl, hydroxyalkyl, alkoxyalkyl, R32 = H, alkyl, cycloalkyl, hydroxyalkyl, alkoxyalkyl; R31R32N = pyrrolidino, aziridino, azetidino, piperidino, piperazino, morpholino, etc.; X = O, NH; Ar = (substituted) Ph, naphthyl, pyrrolyl, pyrazolyl, imidazolyl, benzofuryl, thienyl, thiazolyl, isoxazolyl, pyridyl, quinolyl, isoquinolyl, etc.], were prepared. Thus, (S)-2,3-dimethyl-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazole-5-carboxylic acid dimethylamide was heated with Lawesson's reagent in PhMe at 100° overnight to give 62% (S)-2,3-dimethyl-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazole-5-carbothioic acid dimethylamide. The latter at 1 µmol/kg i.d. in rats gave >70% inhibition of gastric acid secretion.

IT 911048-48-1P 911048-50-5P 911048-52-7P

911048-54-9P 911048-55-0P 911048-57-2P

911048-59-4P 911048-61-8P

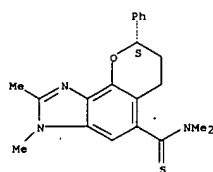
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of fused benzimidazolethioamides for the treatment of gastrointestinal diseases)

RN 911048-48-1 HCAPLUS

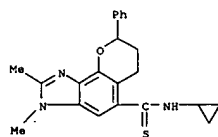
CN Pyrano[2,3-e]benzimidazole-5-carbothioamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 911048-50-5 HCAPLUS

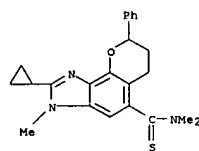
CN Pyrano[2,3-e]benzimidazole-5-carbothioamide, N-cyclopropyl-3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl-, (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

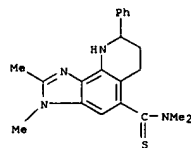
RN 911048-52-7 HCAPLUS

CN Pyrano[2,3-e]benzimidazole-5-carbothioamide, 2-cyclopropyl-3,6,7,8-tetrahydro-N,N,3-trimethyl-8-phenyl-, (9CI) (CA INDEX NAME)



RN 911048-54-9 HCAPLUS

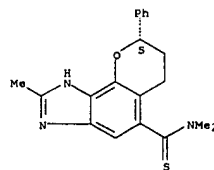
CN 3H-Imidazo[4,5-h]quinoline-5-carbothioamide, 6,7,8,9-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (9CI) (CA INDEX NAME)



RN 911048-55-0 HCAPLUS

CN Pyrano[2,3-e]benzimidazole-5-carbothioamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



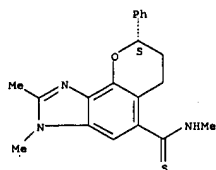
RN 911048-57-2 HCAPLUS

CN Pyrano[2,3-e]benzimidazole-5-carbothioamide, 3,6,7,8-tetrahydro-N,N,2,3-trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

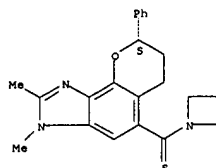
10511049

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

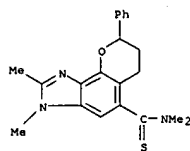


RN 911048-59-4 HCAPLUS
 CN Azetidine, 1-([(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl]thioxomethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



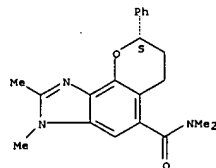
RN 911048-61-8 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carbothioamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl- (9CI) (CA INDEX NAME)



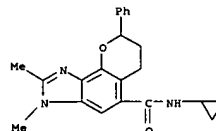
IT 774581-86-1 774581-88-3 774581-99-6
 774582-29-5 774582-31-9 911048-68-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of fused benzimidazolethioamides for the treatment of

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry. Rotation (-).

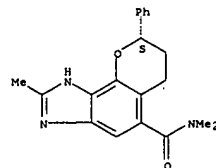


RN 774582-31-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, N-cyclopropyl-3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 911048-68-5 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

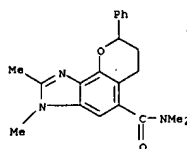
Absolute stereochemistry.



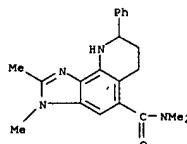
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 911048-71-0P 911048-72-1P 911048-75-4P
 911048-76-5P 911048-79-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

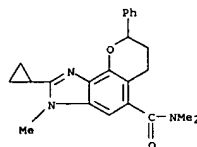
gastrointestinal diseases)
 RN 774581-86-1 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 774581-88-3 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N,N,2,3-tetramethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 774581-99-6 HCAPLUS
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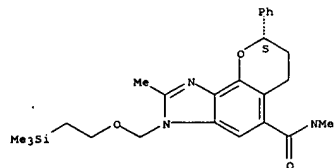


RN 774582-29-5 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

(prepn. of fused benzimidazolethioamides for the treatment of gastrointestinal diseases)
 RN 911048-67-4 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl-3-[(2-(trimethylsilyl)ethoxy)methyl]-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

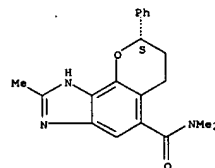


RN 911048-69-6 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl-, (8S)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

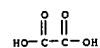
CRN 911048-68-5
 CMF C20 H21 N3 O2

Absolute stereochemistry.



CM 2

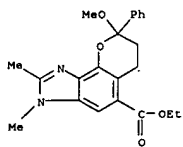
CRN 144-62-7
 CMF C2 H2 O4



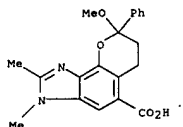
10511049

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

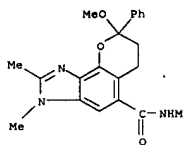
RN 911048-70-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid,
 3,6,7,8-tetrahydro-8-methoxy-
 2,3-dimethyl-8-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 911048-71-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid,
 3,6,7,8-tetrahydro-8-methoxy-
 2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 911048-72-1 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-8-methoxy-
 N,2,3-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)

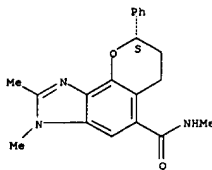


RN 911048-75-4 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-
 trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

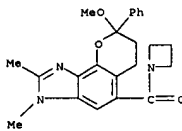
L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry. Rotation (-).

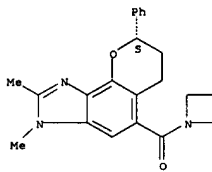


RN 911048-76-5 HCAPLUS
 CN Azetidine, 1-[(3,6,7,8-tetrahydro-8-methoxy-2,3-dimethyl-8-
 phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 911048-79-8 HCAPLUS
 CN Azetidine, 1-[(8S)-3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-
 e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 14 Apr 2006

ACCESSION NUMBER: 2006:343119 HCAPLUS

DOCUMENT NUMBER: 144:390917

TITLE: Preparation of fused benzimidazoles for the treatment
 of gastrointestinal disorders

INVENTOR(S): Zimmermann, Peter Jan; Buhr, Wilma; Brehm, Christof;
 Palmer, Andreas; Chiesa, M. Vittoria; Simon,
 Wolfgang-Alexander; Postius, Stefan; Kromer, Wolfgang

PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

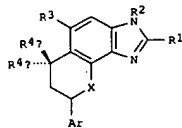
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037759	A1	20060413	WO 2005-EP54944	20050930
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: EP 2004-104851 A 20041004

OTHER SOURCE(S): MARPAT 144:390917

GI



AB Title compds. [I; R1 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkoxy, alkoxyalkyl, alkoxyalkyl, alkenyl, fluoroalkyl, alkylamino, etc.; R2 = H, alkyl, aryl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, hydroxyalkyl, fluoroalkyl, OH, alkoxy, etc.; R3 = H, halo, fluoroalkyl, CO2H, alkoxyalkyl, hydroxyalkyl, alkylcarbonylamino, etc.; 1 of R4a, R4b = H, the other = OH, alkoxy, alkoxyalkoxy, or 1 of R4a, R4b = OH, the other = alkyl, alkoxyalkyl; X = O, NH; Ar = (substituted) Ph, naphthyl, pyrrolyl.

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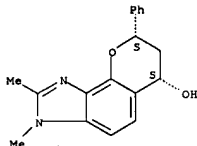
L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 pyrazolyl, imidazolyl, triazolyl, indolyl, furyl, benzofuryl, thienyl, benzothienyl, thiazolyl, pyridinyl, quinolyl, isoquinolyl, etc.), were prepd. Thus, cis-2,3-dimethyl-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazol-6-ol (prepn. given) was stirred with MeSO₃H and 2-methoxyethanol at 60° for 2 h to give 1% cis,trans-6-(2-methoxyethoxy)-2,3-dimethyl-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazole. The latter at 3.0 μmol/kg i.d. in pentagastrin-stimulated perfused rat stomach gave >50% inhibition of gastric acid secretion.

IT 883152-77-0P 883152-78-1P 883152-79-2P
 883152-80-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fused benzimidazoles for the treatment of gastrointestinal disorders)

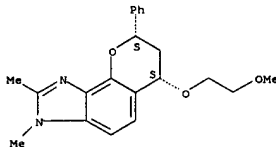
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 CN Pyrano[2,3-e]benzimidazol-6-ol, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl-, (6R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



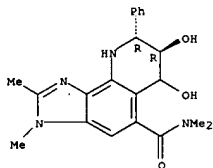
RN 883152-78-1 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2,3-dimethyl-8-phenyl-, (6R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



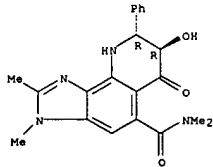
RN 883152-79-2 HCAPLUS

L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



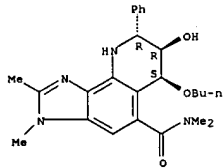
RN 871724-11-7 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-N,N,2,3-tetramethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



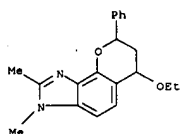
RN 871724-12-8 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-butoxy-6,7,8,9-tetrahydro-7-hydroxy-N,N,2,3-tetramethyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



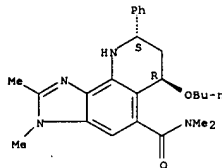
RN 871724-44-6 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 7-(acetyloxy)-6,7,8,9-tetrahydro-N,N,2,3-tetramethyl-6-oxo-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN Pyrano[2,3-e]benzimidazole, 6-ethoxy-3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 883152-80-5 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-butoxy-6,7,8,9-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (6R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



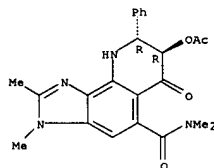
IT 871724-10-6P 871724-11-7P 871724-12-8P
 871724-44-6P 883152-81-6P 883152-84-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of fused benzimidazoles for the treatment of gastrointestinal disorders)

RN 871724-10-6 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-6,7-dihydroxy-N,N,2,3-tetramethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

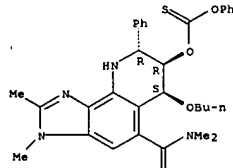
Absolute stereochemistry.

L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.

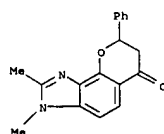


RN 883152-81-6 HCAPLUS
 CN Carbonothioic acid, O-[(6S,7R,8R)-6-butoxy-5-[(dimethylamino)carbonyl]-6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-3H-imidazo[4,5-h]quinolin-7-yl] O-phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 883152-84-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 7,8-dihydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



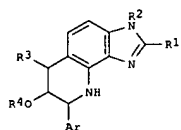
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

10511049

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
 ED Entered STN: 14 Apr 2006
 ACCESSION NUMBER: 2006:342668 HCAPLUS
 DOCUMENT NUMBER: 144:390915
 TITLE: Preparation of imidazoquinolines for treatment of gastrointestinal disorders.
 INVENTOR(S): Zimmermann, Peter Jan; Brehm, Christof; Palmer, Andreas; Chiesa, M. Vittoria; Simon, Wolfgang-Alexander; Postius, Stefan; Kromer, Wolfgang;
 Buhr, Wilf
 PATENT ASSIGNEE(S): Altana Pharma AG, Germany
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

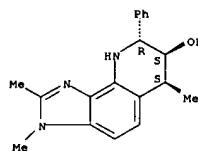
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037748	A1	20060413	WO 2005-EP54898	20050929
WO 2006037748	A8	20061130		
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPL. INFO.:		EP 2004-104838	A 20041001	
OTHER SOURCE(S):		MARPAT 144:390915		
GI				



AB Title compds. [I: R1 = H, halo, OH, alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, fluoroalkyl, alkylamino, etc.; R2 = H, alkyl, alkoxy,

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 alkoxyalkyl, alkenyl, alkynyl, aryl, cycloalkyl, alkoxyalkyl, alkoxyalkyl, fluoroalkyl, hydroxyalkyl, etc.; R3 = H, halo, alkyl, fluoroalkyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, alkynyl, aralkynyl, aralkenyl, cyanoalkyl, aminocarbonylalkyl, etc.; R4 = H, alkyl, fluoroalkyl, cycloalkylalkyl, alkoxyalkyl, hydroxyalkyl, alkoxyalkylcarbonyl, alkylaminocarbonyl, etc.; Ar = (substituted) Ph, were prep. Thus, MeHgBr in Et2O at -5° was treated with (6S,7R,8R)-9-acetyl-2,3-dimethyl-6,7-epoxy-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline in CH2Cl2 followed by stirring for 40 min. at 0° to give 60% (6S,7S,8R)-2,3,6-trimethyl-7-hydroxy-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline. The latter and addnl. 1 at 3 μmol/kg i.d. in pentagastrin-stimulated perfused rat stomach gave >25% inhibition of gastric acid secretion.
 IT 883104-87-8P 883104-88-9P 883104-89-0P
 883104-90-3P 883104-91-4P 883104-92-5P
 883104-93-6P 883104-94-7P 883104-95-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of imidazoquinolines for treatment of gastrointestinal disorders)
 RN 883104-87-8 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6,7,8,9-tetrahydro-2,3,6-trimethyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

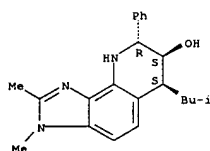
Absolute stereochemistry.



RN 883104-88-9 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6,7,8,9-tetrahydro-2,3-dimethyl-6-(2-methylpropyl)-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

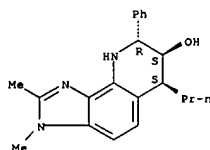
Absolute stereochemistry.

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



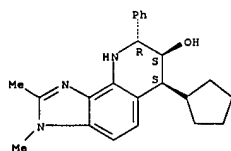
RN 883104-89-0 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-6-propyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 883104-90-3 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6-cyclopentyl-6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

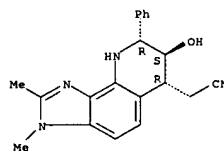
Absolute stereochemistry.



RN 883104-91-4 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6-acetonitrile, 6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

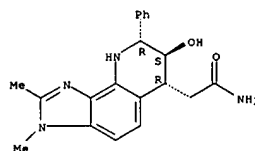
Absolute stereochemistry.

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



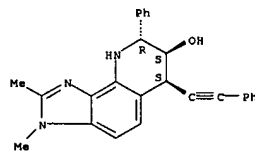
RN 883104-92-5 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6-acetamide, 6,7,8,9-tetrahydro-7-hydroxy-2,3-dimethyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 883104-93-6 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6-cyclopropyl-6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

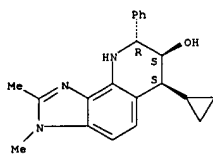


RN 883104-94-7 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol, 6-cyclopropyl-6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

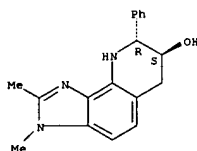
10511049

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 883104-95-8 HCAPLUS
 CN 3H-imidazo[4,5-h]quinolin-7-ol,
 6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-,
 (7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 856706-58-6P 856706-60-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of imidazoquinolines for treatment of gastrointestinal
 disorders)

RN 856706-58-6 HCAPLUS
 CN 3H-imidazo[4,5-h]quinolin-6-one,
 3,7,8,9-tetrahydro-7-hydroxy-2,3-dimethyl-
 8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 22 Dec 2005

ACCESSION NUMBER: 20051328588 HCAPLUS

DOCUMENT NUMBER: 144:69826

TITLE: Preparation of substituted tricyclic benzimidazoles

as
 gastric secretion inhibitors
 Zimmermann, Peter Jan; Buhr, Wilma; Chiesa, M.
 Vittoria; Palmer, Andreas; Postius, Stefan; Kromer,
 Wolfgang; Simon, Wolfgang-Alexander; Brehm, Christo

PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

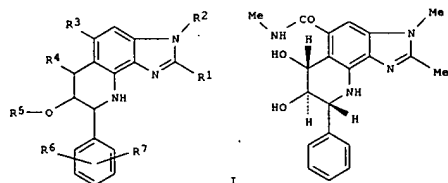
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2005121139	A1	20051222	WO 2005-EP52590	20050607
WO 2005121139	A8	20061123		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, CH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2568856	A1	20051222	CA 2005-2568856	20050607
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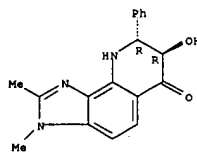
OTHER SOURCE(S): CASREACT 144:69826; MARPAT 144:69826
 GI



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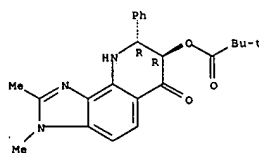
II

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 856706-60-0 HCAPLUS
 CN Propanoic acid, 2,2-dimethyl-, (7R,8R)-6,7,8,9-tetrahydro-2,3-dimethyl-6-
 oxo-8-phenyl-3H-imidazo[4,5-h]quinolin-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The invention relates to tricyclic benzimidazoles (shown as I; variables defined below; e.g. (6R,7R,8R)-6,7,8,9-tetrahydro-6,7-dihydroxy-2,3-dimethyl-8-phenyl-3H-imidazo[4,5-h]quinolin-5-carboxylic acid methylamide (shown as II)).

The compds. have gastric secretion inhibiting (values given for 15 examples of I in perfused rat stomach) and excellent gastric and intestinal protective action properties. Although the methods of preparation are not claimed, preps. and/or characterization data for 16 examples of I are included. For example, II was prepared (65 %) by NaBH₄ reduction of (7R,8R)-6,7,8,9-tetrahydro-7-hydroxy-2,3-dimethyl-6-oxo-8-phenyl-3H-imidazo[4,5-h]quinolin-5-carboxylic acid methylamide (preparation described). For I: R1 is H, halogen, 1-4C-alkyl, 3-7C-cycloalkyl, 3-7C-cycloalkyl-1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkyl, 1-4C-alkoxycarbonyl, 2-4C-alkenyl, 2-4C-alkynyl, fluoro-1-4C-alkyl, fluoro-1-4C-alkoxy-1-4C-alkyl or hydroxy-1-4C-alkyl; R2 is H, 1-4C-alkyl, 3-7C-cycloalkyl, 3-7C-cycloalkyl-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, 2-4C-alkenyl, 2-4C-alkynyl, fluoro-1-4C-alkyl or hydroxy-1-4C-alkyl; R3 is halogen, fluoro-1-4C-alkyl, carbonyl, -CO-1-4C-alkoxy, hydroxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, -CO-1-4C-alkoxy-1-4C-alkyl, fluoro-1-4C-alkoxy-1-4C-alkyl, cyano, -CO-NR31R32, SO2-NR31R32 or heterocyclyl. R4 is H, halogen, 1-4C-alkyl, 3-7C-cycloalkyl, 3-7C-cycloalkyl-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, fluoro-1-4C-alkyl, fluoro-1-4C-alkoxy-1-4C-alkyl, hydroxy-1-4C-alkyl, 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkyl-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkoxy, fluoro-1-4C-alkoxy, fluoro-1-4C-alkoxy-1-4C-alkoxy, hydroxy-1-4C-alkoxy, 2-4C-alkenyl or 2-4C-alkynyl; R5 is H, 1-4C-alkyl, 3-7C-cycloalkyl, 3-7C-cycloalkyl-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, fluoro-1-4C-alkyl, fluoro-1-4C-alkoxy-1-4C-alkyl or hydroxy-1-4C-alkyl; R6 is H, halogen, 1-4C-alkyl or fluoro-1-4C-alkyl; R7 is H, halogen, 1-4C-alkyl or fluoro-1-4C-alkyl; addnl. details are given in the claims.

IT 871723-85-2P, (6R,7R,8R)-6,7-Dihydroxy-2,3-dimethyl-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinolin-5-carboxylic acid methylamide 871724-10-6P, (7R,8R)-6,7-Dihydroxy-2,3-dimethyl-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinolin-5-carboxylic acid dimethylamide 871724-16-2P, (7R,8R)-7-Hydroxy-2,3-dimethyl-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinolin-5-carboxylic acid dimethylamide

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of substituted imidazoquinolines as

gastric secretion inhibitors)

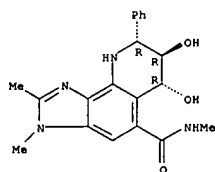
RN 871723-85-2 HCAPLUS

CN 3H-imidazo[4,5-h]quinolin-5-carboxamide,
 6,7,8,9-tetrahydro-6,7-dihydroxy-
 N,2,3-trimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

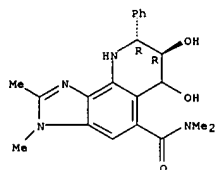
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L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



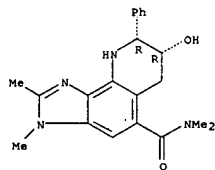
RN 871724-10-6 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide,
6,7,8,9-tetrahydro-6,7-dihydroxy-
N,N,2,3-tetramethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

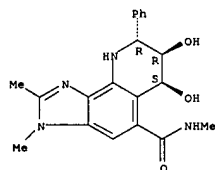


RN 871724-16-2 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-
N,N,2,3-trimethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

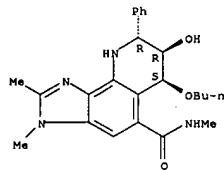


L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



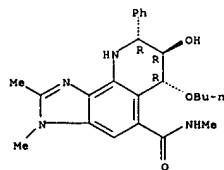
RN 871723-88-5 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-butoxy-6,7,8,9-tetrahydro-7-
hydroxy-N,2,3-trimethyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 871723-89-6 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-butoxy-6,7,8,9-tetrahydro-7-
hydroxy-N,2,3-trimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 871723-92-1 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-6-
(2-methoxyethoxy)-N,2,3-trimethyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 871723-79-4P, (6S,7R,8R)-6,7,8,9-Tetrahydro-6,7-dihydroxy-2,3-
dimethyl-8-phenyl-3H-imidazo[4,5-h]quinoline-5-carboxylic acid
methylamide

871723-88-5P, (6S,7R,8R)-6-Butyloxy-6,7,8,9-tetrahydro-7-hydroxy-
2,3-dimethyl-8-phenyl-3H-imidazo[4,5-h]quinoline-5-carboxylic acid
methylamide 871723-89-6P, (6R,7R,8R)-6-Butyloxy-6,7,8,9-
tetrahydro-7-hydroxy-2,3-dimethyl-8-phenyl-3H-imidazo[4,5-h]quinoline-5-
carboxylic acid methylamide 871723-92-1P, (6S,7R,8R)-6,7,8,9-
Tetrahydro-7-hydroxy-6-(2-methoxyethoxy)-2,3-dimethyl-8-phenyl-3H-
imidazo[4,5-h]quinoline-5-carboxylic acid methylamide 871723-95-4P

(6R,7R,8R)-6,7,8,9-Tetrahydro-7-hydroxy-6-(2-methoxyethoxy)-2,3-dimethyl-
8-phenyl-3H-imidazo[4,5-h]quinoline-5-carboxylic acid methylamide
871723-98-7P, (6S,7R,8R)-6,7,8,9-Tetrahydro-7-hydroxy-2,3-dimethyl-
8-phenyl-6-propargyloxy-3H-imidazo[4,5-h]quinoline-5-carboxylic acid
methylamide 871724-01-5P, (6R,7R,8R)-6,7,8,9-Tetrahydro-7-

hydroxy-2,3-dimethyl-8-phenyl-6-propargyloxy-3H-imidazo[4,5-h]quinoline-5-
carboxylic acid methylamide 871724-04-8P, (6S,7R,8R)-6,7,8,9-
Tetrahydro-7-hydroxy-2,3-dimethyl-8-phenyl-6-(2,2,2-trifluoroethyl)-3H-
imidazo[4,5-h]quinoline-5-carboxylic acid methylamide 871724-07-1P

(6R,7R,8R)-7-Hydroxy-2,3-dimethyl-8-phenyl-6-(2,2-difluoroethyl)-6,7,8,9-
tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid methylamide
871724-09-3P, (7R,8R)-7-Hydroxy-2,3-dimethyl-8-phenyl-6,7,8,9-
tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid methylamide
871724-12-8P, (6S,7R,8R)-6-Butyloxy-7-hydroxy-2,3-dimethyl-8-
phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid
dimethylamide 871724-14-0P, (6R,7R,8R)-6-Butyloxy-7-hydroxy-2,3-
dimethyl-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-
carboxylic acid dimethylamide 871724-18-4P, (7R,8R)-2,3-Dimethyl-
7-methoxy-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-
carboxylic acid dimethylamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(drug candidate; preparation of substituted imidazoquinolines as
gastric

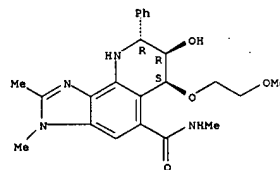
secretion inhibitors)

RN 871723-79-4 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide,
6,7,8,9-tetrahydro-6,7-dihydroxy-
N,2,3-trimethyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

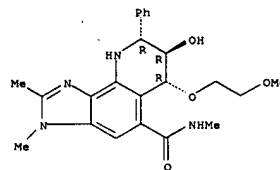
L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.



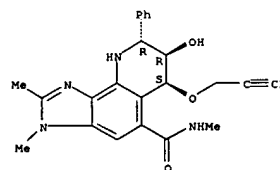
RN 871723-95-4 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-6-
(2-methoxyethoxy)-N,2,3-trimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 871723-98-7 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-
N,2,3-trimethyl-8-phenyl-6-(2-propynyloxy)-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

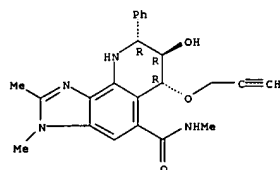


RN 871724-01-5 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-

10511049

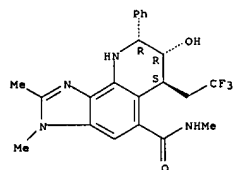
L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN N,2,3-trimethyl-8-phenyl-6-(2-propynyloxy)-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 871724-04-8 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-N,2,3-trimethyl-8-phenyl-6-(2,2,2-trifluoroethyl)-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

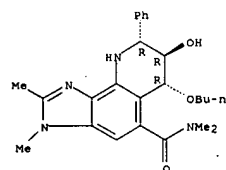


RN 871724-07-1 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-(2,2-difluoroethyl)-6,7,8,9-tetrahydro-7-hydroxy-N,2,3-trimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

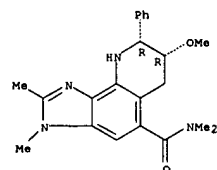
L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-butoxy-6,7,8,9-tetrahydro-7-hydroxy-N,N,2,3-tetramethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 871724-18-4 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-methoxy-N,N,2,3-tetramethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

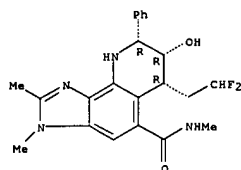


IT 871723-82-9P, (7R,8R)-7-Hydroxy-2,3-dimethyl-6-oxo-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid dimethylamide 871724-11-7P, (7R,8R)-7-Hydroxy-2,3-dimethyl-6-oxo-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid dimethylamide 871724-32-2P, (7R,8R)-7-Acetoxy-2,3-dimethyl-6-oxo-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid dimethylamide 871724-44-6P, (7R,8R)-7-Acetoxy-2,3-dimethyl-6-oxo-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline-5-carboxylic acid dimethylamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted imidazoquinolines as gastric secretion inhibitors)

RN 871723-82-9 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-N,2,3-trimethyl-6-oxo-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

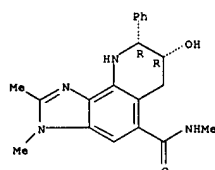
Absolute stereochemistry.

L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



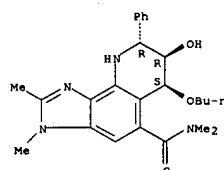
RN 871724-09-3 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-N,2,3-trimethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



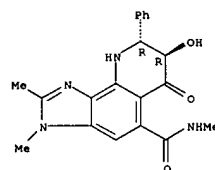
RN 871724-12-8 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6-butoxy-6,7,8,9-tetrahydro-7-hydroxy-N,N,2,3-tetramethyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



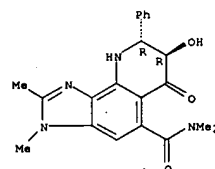
RN 871724-14-0 HCAPLUS

L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



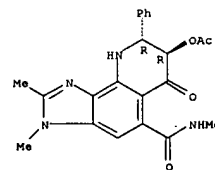
RN 871724-11-7 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-7-hydroxy-N,N,2,3-tetramethyl-6-oxo-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



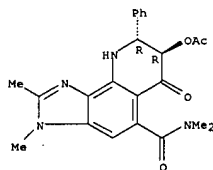
RN 871724-32-2 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 7-(acetyloxy)-6,7,8,9-tetrahydro-N,2,3-trimethyl-6-oxo-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 871724-44-6 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 7-(acetyloxy)-6,7,8,9-tetrahydro-N,N,2,3-tetramethyl-6-oxo-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

ED Entered STN: 03 Nov 2005

ED Entered SIN: 03 NOV 2005
ACCESSION NUMBER: 2005:1168905 HCAPLUS

ACCESSION NUMBER: 2003:11689
DOCUMENT NUMBER: 143:440407

DOCUMENT NUMBER: 143:440407
TITLE: Preparation of 6,7-dihydroxy-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazoles as gastric acid secretion inhibitors.

INVENTOR(S): Zimmermann, Peter Jan; Brehm, Christof; Palmer, Andreas; Chiesa, M. Vittoria; Simon, Wolfgang-Alexander; Postius, Stefan; Kromer,

Wolfgang: Senn-Bilfinger, Joerg; Buhr, Wil-

PATENT ASSIGNEE(S): Senn-Bilfinger, Joerg; Bu
SOURCE: Altana Pharma AG, Germany
PCT Int. Appl., 57 pp.

CODEN:

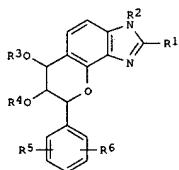
DOCUMENT TYPE: Patent
LANGUAGE: English

LANGUAGE: E
FAMILY BGC NUM COUNT: 1

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005103057	A1	20051103	WO 2005-EP51822	20050422
WO 2005103057	A8	20060216		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AZ, BY, BG, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AR, AU, AZ, BA, BB, BG, CH, CY, CZ, DE, DK, DM, DZ, EC, EG, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GT, GW, HN, HR, IR, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LB, LC, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
AU 2005235754	A1	20051103	AU 2005-235754	20050422
CA 2563759	A1	20051103	CA 2005-2563759	20050422
EP 1742951	A1	20070117	EP 2005-740363	20050422
R: AT, BE, BG, CH, CY, CZ, DE, DK, EC, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, BR, BV, CH, CY, CZ, DE, DK, DM, DZ, EC, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KH, KI, KP, KR, KZ, LA, LB, LC, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, OS, PA, PG, PH, PK, PL, PT, RO, RU, SC, SD, SE, SG, SH, SI, SK, SL, SM, SN, SO, SR, SS, ST, SV, SY, TD, TG, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VE, VN, VU, WO, XG, YU, ZA, ZM, ZW				
PRIORITY APPLN. INFO.:			EP 2004-9793	A 20040426
			WO 2005-EP51822	W 20050422

OTHER SOURCE(S): MARPAT 143:440407
GI



AB Title compds. (I: R1 = H, halo, alkyl, cycloalkyl, cycloalkylalkyl, alkoxo, alkoxyalkyl, alkoxyalkylcarbonyl, alkenyl, alkynyl, fluoroalkyl, fluoroalkoxyalkyl, hydroxyalkyl, R2 = H, alkyl, cycloalkyl, cycloalkoxyalkyl, alkoxyalkyl, alkenyl, alkynyl, fluoroalkyl, hydroxyalkyl; R3 = H, alkyl, cycloalkyl, cycloalkoxyalkyl, alkoxyalkyl, fluoroalkyl, fluoroalkoxyalkyl, hydroxyalkyl; R4 = H, alkyl, cycloalkyl, cycloalkoxyalkyl, alkoxyalkyl, fluoroalkyl, fluoroalkoxyalkyl, hydroxyalkyl, alkoxyalkylcarbonyl, mono- or dialkylaminoalkylcarbonyl, alkoxyalkylcarbonyl; R3R4 = CH2, CH2CH2, CH2CH2CH2, C(Me)2; R5 = H, halo, alkyl, fluoroalkyl; R6 = H, halo, alkyl, cycloalkyl). Prepared Thus, (6R, 7S, 8R)-6,7-dihydroxy-2,3-dimethyl-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazole was stirred 3 h at 120° with 2-methoxyethanol and concentrate H2SO4 to give 26% (6R, 7S, 8R)-7-hydroxy-6-(2-methoxyethyl)-2,3-dimethyl-8-phenyl-3,6,7,8-tetrahydrochromeno[7,8-d]imidazole. The latter at 2 µmol/kg i.d. in perfused rat stomach gave >50% inhibition of acid secretion.

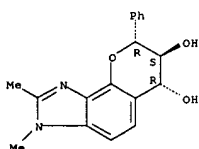
IT 868633-60-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIO (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses).
(Preparation of hydroxyphenyltetrahydrochromonimidazoles as gastric

acid

secretion inhibits

RN 868633-60-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-6,7-diol, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 868633-58-3P 868633-59-4P 868633-61-8P
868633-62-9P 868633-63-0P 868633-64-1P
868633-65-2P 868633-66-3P 868633-67-4P
868633-68-5P 868633-69-6P 868633-70-5P
868633-71-0P 868633-72-1P 868633-73-2P
868633-74-3P 868633-75-4P 868633-76-5P
868633-77-6P 868633-78-7P 868633-79-8P
RL: PA (Pharmacological activity); SPN (Synthetic preparation)
T (Therapeutic use); BIOL (Biological study); PREP (Preparation)
(Vas)

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(uses)
  (preparation of hydroxyphenyltetrahydrochromenoimidazoles as gastric

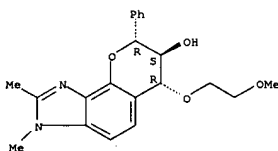
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acid

acid secretion inhibitors

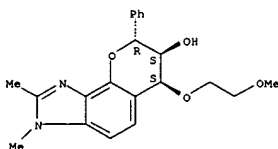
secretion inhibitors)
RN 868633-58-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-7-ol,
3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2,3-
dimethyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868633-59-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-7-ol,
3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2,3-
dimethyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

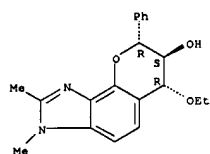


RN 868633-61-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-7-ol,
6-ethoxy-3,6,7,8-tetrahydro-2,3-dimethyl-8-
phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

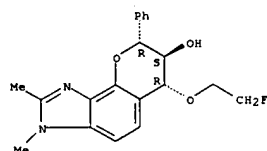
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L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



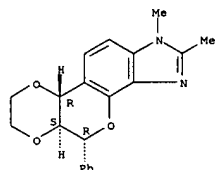
RN 868633-62-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-7-ol,
 6-(2-fluoroethoxy)-3,6,7,8-tetrahydro-2,3-
 dimethyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



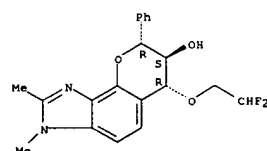
RN 868633-63-0 HCAPLUS
 CN [1,4]Dioxino[2',3':4,5]pyrano[2,3-e]benzimidazole,
 1,5,5a,7,8,9a-hexahydro-
 1,2-dimethyl-5-phenyl-, (5R,5aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



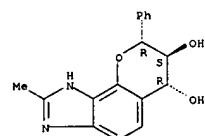
RN 868633-64-1 HCAPLUS

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



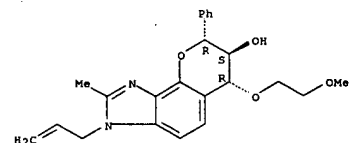
RN 868633-67-4 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-6,7-diol,
 1,6,7,8-tetrahydro-2-methyl-8-phenyl-
 , (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868633-68-5 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-7-ol, 3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2-
 methyl-8-phenyl-3-(2-propenyl)-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

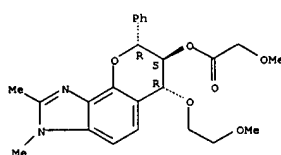


RN 868633-69-6 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-7-ol, 3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2-
 methyl-8-phenyl-3-(1E)-1-propenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

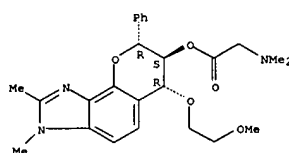
L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN Acetic acid, methoxy-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-
 2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



RN 868633-65-2 HCAPLUS
 CN Glycine, N,N-dimethyl-,
 (6R,7S,8R)-3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-
 2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA
 INDEX NAME)

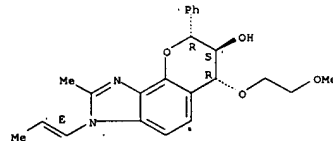
Absolute stereochemistry.



RN 868633-66-3 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-7-ol,
 6-(2,2-difluoroethoxy)-3,6,7,8-tetrahydro-
 2,3-dimethyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

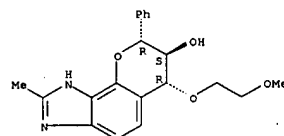
Absolute stereochemistry.

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



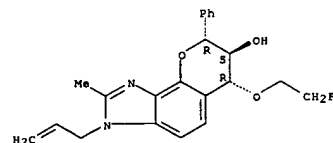
RN 868633-70-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-7-ol, 1,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2-
 methyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868633-71-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazol-7-ol, 6-(2-fluoroethoxy)-3,6,7,8-tetrahydro-2-
 methyl-8-phenyl-3-(2-propenyl)-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

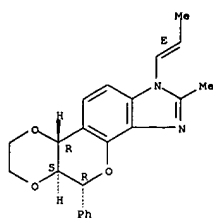


RN 868633-72-1 HCAPLUS
 CN [1,4]Dioxino[2',3':4,5]pyrano[2,3-e]benzimidazole,
 1,5,5a,7,8,9a-hexahydro-
 2-methyl-5-phenyl-1-(1E)-1-propenyl-, (5R,5aS,9aR)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

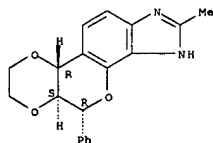
10511049

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



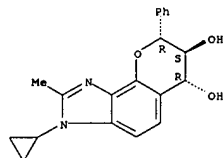
RN 868633-73-2 HCAPLUS
CN [1,4]Dioxino[2',3':4,5]pyrano[2,3-e]benzimidazole,
1,5,5a,7,8,9a-hexahydro-
2-methyl-5-phenyl-, (5R,5aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868633-74-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-6,7-diol, 3-cyclopropyl-3,6,7,8-tetrahydro-2-
methyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

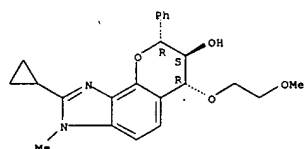
Absolute stereochemistry.



L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

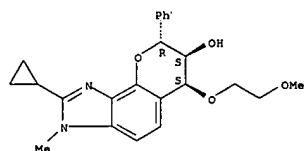
RN 868633-78-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-7-ol, 2-cyclopropyl-3,6,7,8-tetrahydro-6-(2-
methoxyethoxy)-3-methyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868633-79-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-7-ol, 2-cyclopropyl-3,6,7,8-tetrahydro-6-(2-
methoxyethoxy)-3-methyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 868634-27-9 868634-28-0 868634-29-1
868634-30-4 868634-31-5 868634-32-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydroxyphenyltetrahydrochromenoimidazoles as gastric
acid secretion inhibitors)

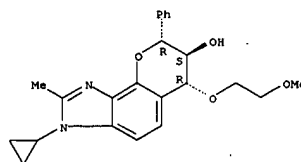
RN 868634-27-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-6(3H)-one,
7-(acetyloxy)-7,8-dihydro-2-methyl-8-
phenyl-3-(1-propenyl)-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

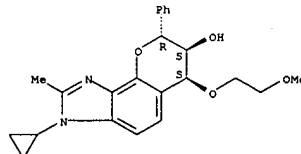
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CN Pyrano[2,3-e]benzimidazole-7-ol, 3-cyclopropyl-3,6,7,8-tetrahydro-6-(2-
methoxyethoxy)-2-methyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



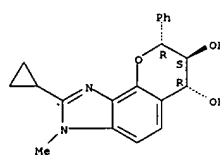
RN 868633-76-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-7-ol, 3-cyclopropyl-3,6,7,8-tetrahydro-6-(2-
methoxyethoxy)-2-methyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

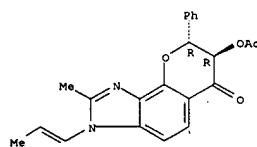


RN 868633-77-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-6,7-diol, 2-cyclopropyl-3,6,7,8-tetrahydro-3-
methyl-8-phenyl-, (6R,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

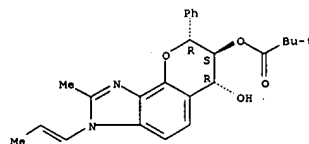


L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



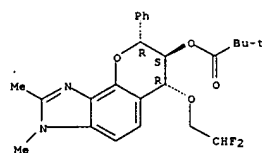
RN 868634-28-0 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-hydroxy-2-
methyl-8-phenyl-3-(1-propenyl)pyrano[2,3-e]benzimidazole-7-yl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 868634-29-1 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-6-(2,2-difluoroethoxy)-3,6,7,8-
tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazole-7-yl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

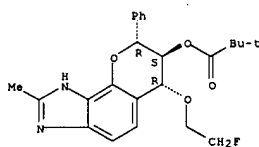


RN 868634-30-4 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-6-(2-fluoroethoxy)-1,6,7,8-
tetrahydro-2-methyl-8-phenylpyrano[2,3-e]benzimidazole-7-yl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

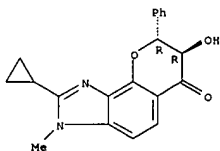
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L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



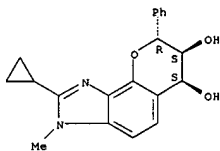
RN 868634-31-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one,
2-cyclopropyl-7,8-dihydro-7-hydroxy-3-
methyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



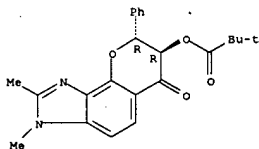
RN 868634-32-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-6,7-diol, 2-cyclopropyl-3,6,7,8-tetrahydro-3-
methyl-8-phenyl-, (6S,7S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



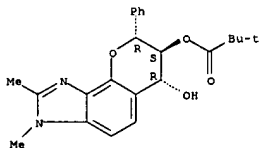
IT 868633-84-5P 868633-85-6P 868633-86-7P
868633-87-8P 868633-88-9P 868633-89-0P
868634-07-5P 868634-08-6P 868634-09-7P
868634-10-0P 868634-11-1P 868634-12-2P

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



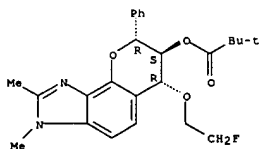
RN 868633-87-8 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-,
(6R,7S,8R)-3,6,7,8-tetrahydro-2,3-
dimethyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



RN 868633-88-9 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-
tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester
(9CI)
(CA INDEX NAME)

Absolute stereochemistry.

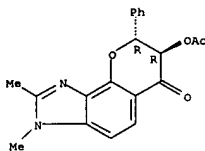


RN 868633-89-0 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-,
(6R,7S,8R)-6-ethoxy-3,6,7,8-tetrahydro-2,3-
dimethyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX
NAME)

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

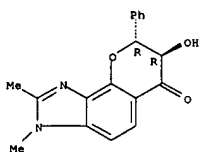
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868634-16-6P 868634-17-7P 868634-18-8P
868634-19-9P 868634-20-2P 868634-21-3P
868634-22-4P 868634-23-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent); (prepn. of hydroxyphenyltetrahydrochromenoimidazoles as gastric acid
secretion inhibitors)
RN 868633-84-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 7-(acetyloxy)-7,8-dihydro-2,3-
dimethyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



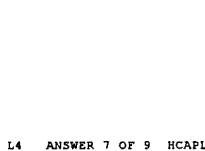
RN 868633-85-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one,
7,8-dihydro-7-hydroxy-2,3-dimethyl-8-
phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



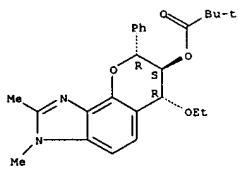
RN 868633-86-7 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (7R,8R)-3,6,7,8-tetrahydro-2,3-dimethyl-6-
oxo-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



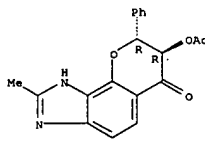
L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

Absolute stereochemistry.



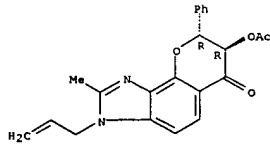
RN 868634-07-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(1H)-one,
7-(acetyloxy)-7,8-dihydro-2-methyl-8-
phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868634-08-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one,
7-(acetyloxy)-7,8-dihydro-2-methyl-8-
phenyl-3-(2-propenyl)-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

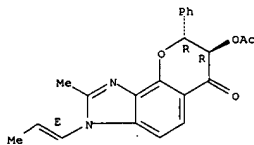


RN 868634-09-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one,
7-(acetyloxy)-7,8-dihydro-2-methyl-8-
phenyl-3-(1E)-1-propenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

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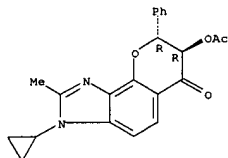
L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry as shown.



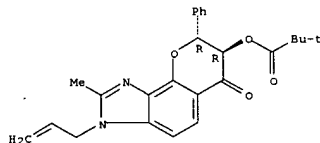
RN 868634-10-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 7-(acetyloxy)-3-cyclopropyl-7,8-dihydro-2-methyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

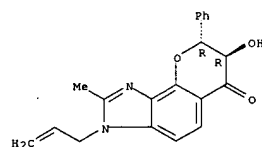


RN 868634-11-1 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (7R,8R)-3,6,7,8-tetrahydro-2-methyl-6-oxo-8-phenyl-3-(2-propenyl)pyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

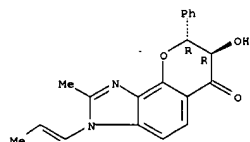


L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



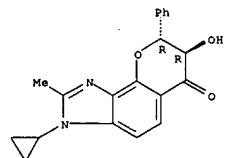
RN 868634-15-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 7,8-dihydro-7-hydroxy-2-methyl-8-phenyl-3-(1-propenyl)-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 868634-16-6 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 3-cyclopropyl-7,8-dihydro-7-hydroxy-2-methyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



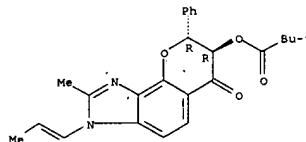
RN 868634-17-7 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-6-(2-fluoroethoxy)-3,6,7,8-tetrahydro-2-methyl-8-phenyl-3-(2-propenyl)pyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

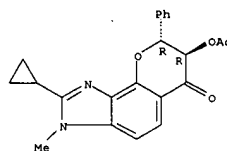
RN 868634-12-2 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (7R,8R)-3,6,7,8-tetrahydro-2-methyl-6-oxo-8-phenyl-3-(1-propenyl)pyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 868634-13-3 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 7-(acetyloxy)-2-cyclopropyl-7,8-dihydro-3-methyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

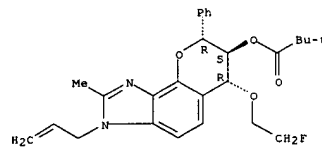
Absolute stereochemistry.



RN 868634-14-4 HCAPLUS
CN Pyrano[2,3-e]benzimidazol-6(3H)-one, 7,8-dihydro-7-hydroxy-2-methyl-8-phenyl-3-(2-propenyl)-, (7R,8R)- (9CI) (CA INDEX NAME)

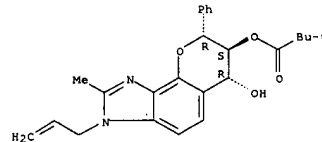
Absolute stereochemistry.

L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



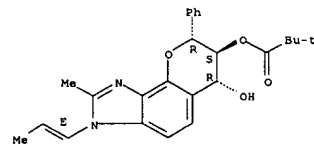
RN 868634-18-8 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-hydroxy-2-methyl-8-phenyl-3-(2-propenyl)pyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868634-19-9 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-hydroxy-2-methyl-8-phenyl-3-(1E)-1-propenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

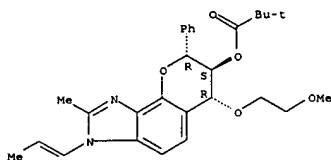


RN 868634-20-2 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2-methyl-8-phenyl-3-(1-propenyl)pyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

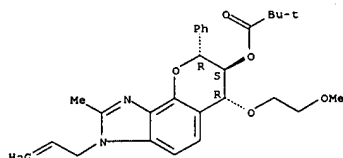
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L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



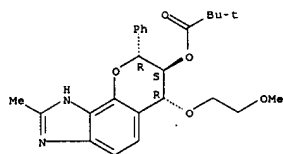
RN 868634-21-3 HCAPLUS
 CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2-methyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 868634-22-4 HCAPLUS
 CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-1,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2-methyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 30 Jun 2005

ACCESSION NUMBER: 2005564665 HCAPLUS

DOCUMENT NUMBER: 143:97360

TITLE: Preparation of 6,7,8,9-tetrahydroimidazo[4,5-h]quinolines as gastrointestinal agents.
 INVENTOR(S): Zimmermann, Peter Jan; Brehm, Christof; Palmer, Andreas; Chiesa, M. Vittoria; Simon, Wolfgang-Alexander; Postius, Stefan; Kromer, Wolfgang;

Wolfgang; Senn-Bilfinger, Joerg; Buhr, Wilma
 PATENT ASSIGNEE(S): Alcan Pharma A.-G., Germany

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIIXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058893	A1	20050630	WO 2004-EP53544	20041216
WO 2005058893	A8	20060511		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004298452	A1	20050630	AU 2004-298452	20041216
CA 2549042	A1	20050630	CA 2004-2549042	20041216
EP 1697357	A2	20060906	EP 2004-804890	20041216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
US 2007037840	A1	20070215	US 2006-582490	20060609
PRIORITY APPLN. INFO.: EP 2003-28846 A 20031216				
WO 2004-EP53544 W 20041216				

OTHER SOURCE(S): MARPAT 143:97360
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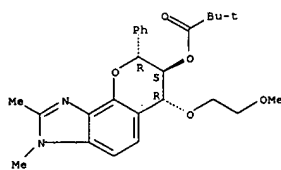
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L4 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 868634-23-5 HCAPLUS

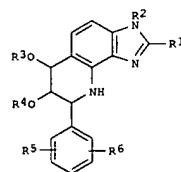
CN Propanoic acid, 2,2-dimethyl-, (6R,7S,8R)-3,6,7,8-tetrahydro-6-(2-methoxyethoxy)-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

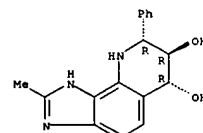


AB Title compds. (I; R1 = H, halo, alkyl, cycloalkyl, cycloalkylalkyl, alkoxy, alkoxyalkyl, alkoxycarbonyl, alkenyl, alkynyl, fluoroalkyl, fluoroalkoxyalkyl, hydroxyalkyl; R2 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, alkenyl, alkynyl, fluoroalkyl, hydroxyalkyl; R3 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, fluoroalkyl, fluoroalkoxyalkyl, hydroxyalkyl; R4 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, fluoroalkyl, fluoroalkoxyalkyl, hydroxyalkyl; R5 = (CH2)1-3, isopropylidene; R6 = H, halo, alkyl, fluoroalkyl). Were prepared Thus, (6R,7R,8R)-2,3-dimethyl-6,7-dihydroxy-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline was stirred with concentrate H2SO4 in 2-methoxyethanol for 5 h to give 13% (6R,7R,8R)-2,3-dimethyl-7-hydroxy-6-(2-methoxyethoxy)-8-phenyl-6,7,8,9-tetrahydro-3H-imidazo[4,5-h]quinoline. The latter at 2 μmol/kg i.d. inhibited pentagastrin-induced gastric acid secretion in perfused rat stomach by >50%.

IT 856706-47-3P
 RL: RAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (Preparation of tetrahydroimidazoquinolines as gastrointestinal agents)

RN 856706-47-3 HCAPLUS
 CN 1H-Imidazo[4,5-h]quinoline-6,7-diol, 6,7,8,9-tetrahydro-2-methyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

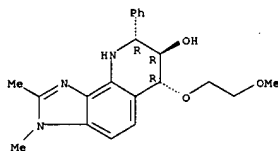


IT 856706-35-9P 856706-36-0P 856706-37-1P
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10511049

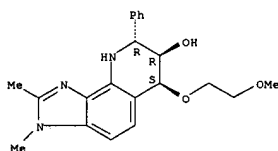
L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 856706-41-7P 856706-42-8P 856706-43-9P
 856706-44-0P 856706-45-1P 856706-46-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (prepn. of tetrahydroimidazoquinolines as gastrointestinal agents)
 RN 856706-35-9 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
 6,7,8,9-tetrahydro-6-(2-methoxyethoxy)-2,3-
 dimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 856706-36-0 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
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 dimethyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

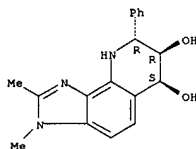


RN 856706-37-1 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
 6-ethoxy-6,7,8,9-tetrahydro-2,3-dimethyl-8-
 phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

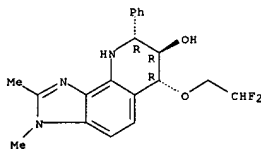
L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.



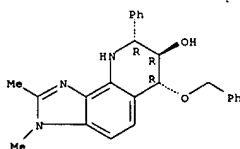
RN 856706-41-7 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
 6-(2,2-difluoroethoxy)-6,7,8,9-tetrahydro-
 2,3-dimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



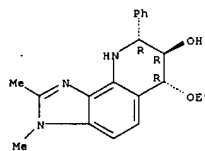
RN 856706-42-8 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
 6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-6-
 (phenylmethoxy)-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



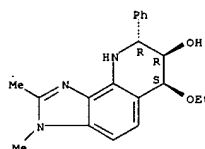
RN 856706-43-9 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
 6-(cyclopropylmethoxy)-6,7,8,9-tetrahydro-
 2,3-dimethyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



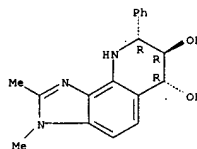
RN 856706-38-2 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinolin-7-ol,
 6-ethoxy-6,7,8,9-tetrahydro-2,3-dimethyl-8-
 phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 856706-39-3 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-6,7-diol, 6,7,8,9-tetrahydro-2,3-dimethyl-8-
 phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

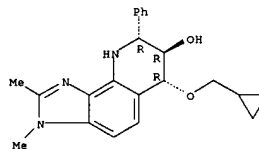
Absolute stereochemistry.



RN 856706-40-6 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-6,7-diol, 6,7,8,9-tetrahydro-2,3-dimethyl-8-
 phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

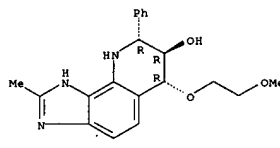
L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.



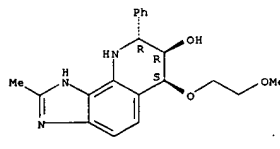
RN 856706-44-0 HCAPLUS
 CN 1H-Imidazo[4,5-h]quinolin-7-ol, 6,7,8,9-tetrahydro-6-(2-methoxyethoxy)-2-
 methyl-8-phenyl-, (6R,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 856706-45-1 HCAPLUS
 CN 1H-Imidazo[4,5-h]quinolin-7-ol, 6,7,8,9-tetrahydro-6-(2-methoxyethoxy)-2-
 methyl-8-phenyl-, (6S,7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

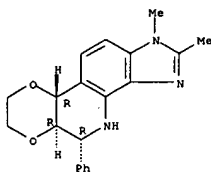


RN 856706-46-2 HCAPLUS
 CN 1H-[1,4]Dioxino[2,3-c]imidazo[4,5-h]quinoline,
 4,5,5a,7,8,9a-hexahydro-1,2-
 dimethyl-5-phenyl-, (5R,5aR,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10511049

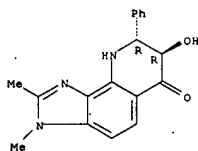
L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



IT 856706-58-6P 856706-60-OP 856706-70-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of tetrahydroimidazoquinolines as gastrointestinal agents)

RN 856706-58-6 HCAPLUS
 CN 6H-Imidazo[4,5-h]quinolin-6-one, 1,7,8,9-tetrahydro-7-hydroxy-2,3-dimethyl-6-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

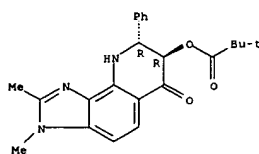
Absolute stereochemistry.



RN 856706-60-0 HCAPLUS
 CN Propanoic acid, 2,2-dimethyl-, (7R,8R)-6,7,8,9-tetrahydro-2,3-dimethyl-6-oxo-8-phenyl-3H-imidazo[4,5-h]quinolin-7-yl ester (9CI) (CA INDEX NAME)

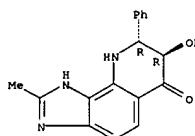
Absolute stereochemistry.

L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 856706-70-2 HCAPLUS
 CN 6H-Imidazo[4,5-h]quinolin-6-one, 1,7,8,9-tetrahydro-7-hydroxy-2-methyl-8-phenyl-, (7R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN

ED Entered STM: 18 Oct 2004

ACCESSION NUMBER: 2004:857597 HCAPLUS

DOCUMENT NUMBER: 141:350168

TITLE: Preparation of benzimidazole derivatives as gastric secretion inhibitors
 INVENTOR(S): Buhr, Wilh; Chiesa, Vittoria M.; Zimmermann, Peter Jan; Brehm, Christof; Palmer, Andreas; Postius, Stefan; Kromer, Wolfgang; Simon, Wolfgang-Alexander; Senn-Billfinger, Joerg; Buhr, Wilh; Chiesa, M. Vittoria; Zimmermann, Peter Jan

PATENT ASSIGNEE(S): Altana Pharma AG, Germany

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

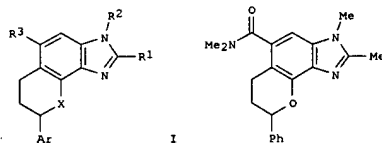
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087701	A1	20041014	WO 2004-EP50428	20040402
WO 2004087701	A8	20050303		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2004226180	A1	20041014	AU 2004-226180	20040402
CA 2520581	A1	20041014	CA 2004-2520581	20040402
EP 1613626	A1	20060111	EP 2004-725396	20040402
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			
BR 2004008893	A	20060411	BR 2004-8893	20040402
CN 1764662	A	20060426	CN 2004-80008345	20040402
JP 2006522071	T	20060928	JP 2006-505516	20040402
US 2006194968	A1	20060831	US 2005-551049	20050927
NO 2005005033	A	20051028	NO 2005-5033	20051028
PRIORITY APPLN. INFO.:			EP 2003-7780	A 20030404
			WO 2004-EP50428	W 20040402

OTHER SOURCE(S): MARPAT 141:350168
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L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



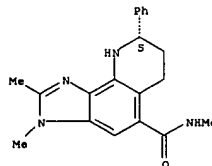
AB Title compds. represented by the formula I [wherein R1 = H, halo, (cyclo)alkyl, alkylamino, etc.; R2 = H, (cyclo)alkyl, alkoxy, aryl, etc.; R3 = H, halo, fluoroalkyl, carboxyl, etc.; X = O or NH; Ar = (un)substituted aryl] and pharmaceutically acceptable salts thereof were prepared as gastric secretion inhibitors. For example, cyclization of 7-hydroxy-6-(3-hydroxy-3-phenylpropyl)-2,3-dimethyl-3H-benzimidazole-5-carboxylic acid dimethylamide (preparation given) by phosphoric acid gave II in 68% yield. The prepared compds. were tested for inhibition of gastric secretion in vivo on rat. Thus, I and their pharmaceutical compns. are useful as gastric secretion inhibitors for the treatment of gastrointestinal disorders.

IT 774582-27-3P 774582-28-4P 774582-29-5P

774582-30-8P
 RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzimidazole derivs. as gastric secretion inhibitors)

RN 774582-27-3 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N,2,3-trimethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

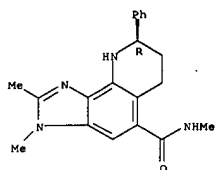


RN 774582-28-4 HCAPLUS
 CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N,2,3-trimethyl-8-phenyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

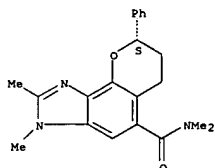
10511049

L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



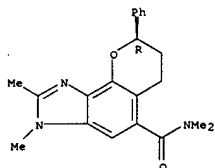
RN 774582-29-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



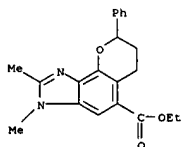
RN 774582-30-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

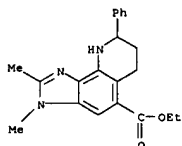


IT 774581-86-1P 774581-91-8P 774582-03-5P

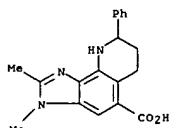
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 774582-20-6 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxylic acid, 6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



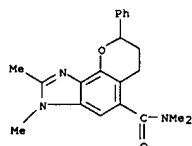
RN 774582-21-7 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxylic acid, 6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



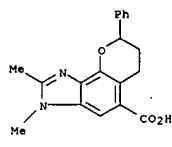
RN 774582-24-0 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N,2,3-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
774582-08-0P 774582-20-6P 774582-21-7P

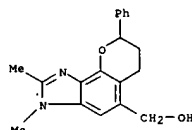
774582-24-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of benzimidazole derivs. as gastric secretion inhibitors)
RN 774581-86-1 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,2,3-tetramethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 774581-91-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxylic acid, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

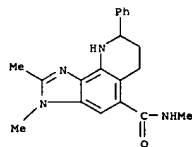


RN 774582-03-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-methanol, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

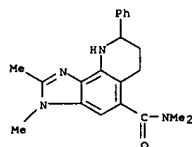


RN 774582-08-0 HCAPLUS

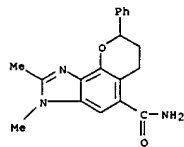
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 774581-88-3P 774581-90-7P 774581-92-9P
774581-93-0P 774581-94-1P 774581-95-2P
774581-96-3P 774581-97-4P 774581-99-6P
774582-02-4P 774582-05-7P 774582-06-8P
774582-07-9P 774582-10-4P 774582-11-5P
774582-12-6P 774582-13-7P 774582-14-8P
774582-16-0P 774582-18-2P 774582-22-8P
774582-23-9P 774582-25-1P 774582-26-2P
774582-31-9P 774582-32-0P 774582-34-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzimidazole derivs. as gastric secretion inhibitors)
RN 774581-88-3 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N,N,2,3-tetramethyl-8-phenyl- (9CI) (CA INDEX NAME)



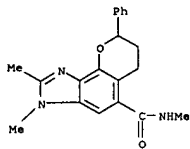
RN 774581-90-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



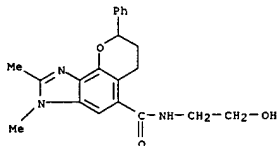
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L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

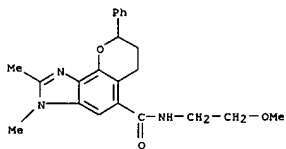
RN 774581-92-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,2,3-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 774581-93-0 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N-(2-hydroxyethyl)-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

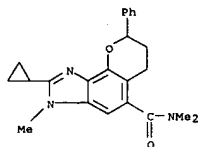


RN 774581-94-1 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N-(2-methoxyethyl)-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



RN 774581-95-2 HCAPLUS
 CN Morpholine, 4-[(3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)

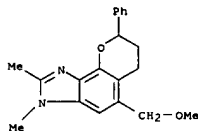
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774582-02-4 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-(methoxymethyl)-2,3-dimethyl-8-phenyl-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 774582-01-3
 CMF C20 H22 N2 O2



CM 2

CRN 144-62-7
 CMF C2 H2 O4

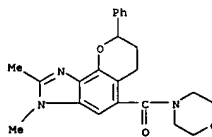


RN 774582-05-7 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-5-[(2-methoxyethoxy)methyl]-2,3-dimethyl-8-phenyl-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

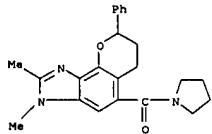
CM 1

CRN 774582-04-6
 CMF C22 H26 N2 O3

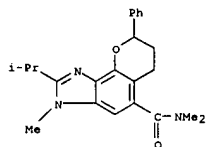
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774581-96-3 HCAPLUS
 CN Pyrrolidine, 1-[(3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)

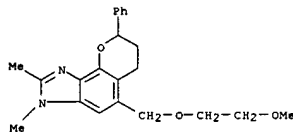


RN 774581-97-4 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,3-trimethyl-2-(1-methylethyl)-8-phenyl- (9CI) (CA INDEX NAME)



RN 774581-99-6 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 2-cyclopropyl-3,6,7,8-tetrahydro-N,N,3-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

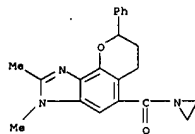


CM 2

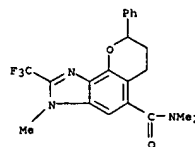
CRN 144-62-7
 CMF C2 H2 O4



RN 774582-06-8 HCAPLUS
 CN Aziridine, 1-[(3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)



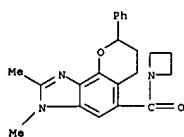
RN 774582-07-9 HCAPLUS
 CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-N,N,3-trimethyl-8-phenyl-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)



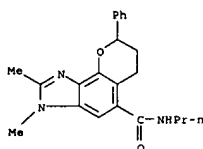
RN 774582-10-4 HCAPLUS
 CN Azetidine, 1-[(3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl]- (9CI) (CA INDEX NAME)

10511049

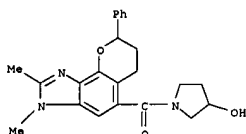
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
e)benzimidazol-5-yl)carbonyl)- (9CI) (CA INDEX NAME)



RN 774582-11-5 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
3,6,7,8-tetrahydro-2,3-dimethyl-
8-phenyl-N-propyl- (9CI) (CA INDEX NAME)

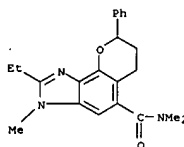


RN 774582-12-6 HCAPLUS
CN 3-Pyrrolidinol, 1-[(3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)carbonyl)- (9CI) (CA INDEX NAME)

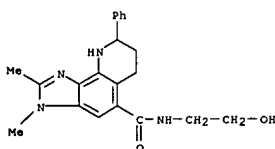


RN 774582-13-7 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-(2,3-dihydroxypropyl)-3,6,7,8-
tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

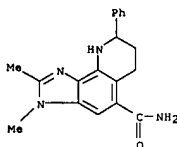
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774582-22-8 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, 6,7,8,9-tetrahydro-N-(2-hydroxyethyl)-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

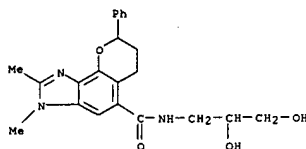


RN 774582-23-9 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide,
6,7,8,9-tetrahydro-2,3-dimethyl-
8-phenyl- (9CI) (CA INDEX NAME)

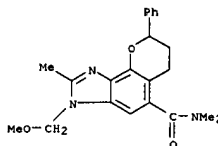


RN 774582-25-1 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-carboxamide, N-1-aziridinyl-6,7,8,9-
tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)

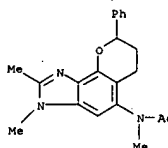
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774582-14-8 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 3,6,7,8-tetrahydro-3-
(methoxymethyl)-N,N,2-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)

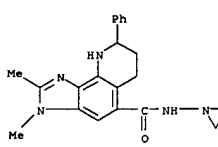


RN 774582-16-0 HCAPLUS
CN Acetamide,
N-methyl-N-(3,6,7,8-tetrahydro-2,3-dimethyl-8-phenylpyrano[2,3-e]benzimidazol-5-yl)- (9CI) (CA INDEX NAME)

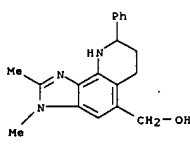


RN 774582-18-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
2-ethyl-3,6,7,8-tetrahydro-N,N,3-
trimethyl-8-phenyl- (9CI) (CA INDEX NAME)

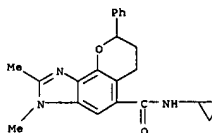
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774582-26-2 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline-5-methanol, 6,7,8,9-tetrahydro-2,3-dimethyl-8-
phenyl- (9CI) (CA INDEX NAME)



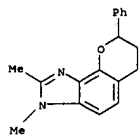
RN 774582-31-9 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide,
N-cyclopropyl-3,6,7,8-tetrahydro-
2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



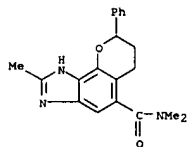
RN 774582-32-0 HCAPLUS
CN Pyrano[2,3-e]benzimidazole, 3,6,7,8-tetrahydro-2,3-dimethyl-8-phenyl-
(9CI) (CA INDEX NAME)

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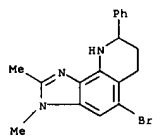
L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774582-34-2 HCAPLUS
CN Pyrano[2,3-e]benzimidazole-5-carboxamide, 1,6,7,8-tetrahydro-N,N,2-trimethyl-8-phenyl- (9CI) (CA INDEX NAME)



IT 774581-89-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzimidazole derivs. as gastric secretion inhibitors)
RN 774581-89-4 HCAPLUS
CN 3H-Imidazo[4,5-h]quinoline, 5-bromo-6,7,8,9-tetrahydro-2,3-dimethyl-8-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

50.03

222.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-7.02

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